

Forty-Third Annual Report

OF THE

BOARD OF TRUSTEES

OF

The Ohio State University

TO THE

GOVERNOR OF OHIO

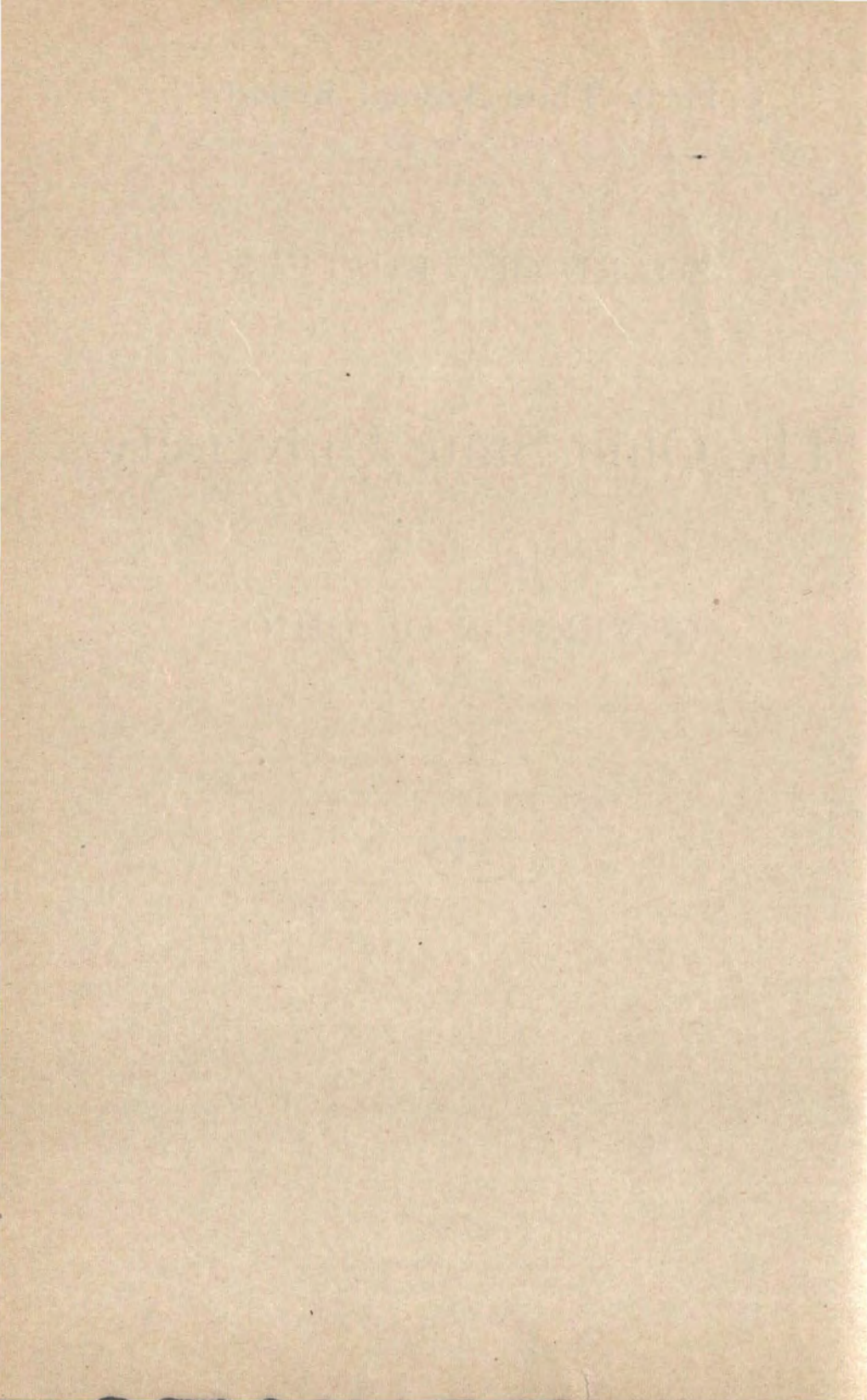
FOR THE

YEAR ENDING JUNE 30

1913



COLUMBUS, OHIO:
THE F. J. HEER PRINTING CO.
1914



OFFICE OF THE BOARD OF TRUSTEES, THE OHIO STATE UNIVERSITY

COLUMBUS, OHIO, October 1, 1913

Honorable JAMES M. COX, Governor of the State of Ohio:

SIR:—I have the honor to transmit herewith the forty-third annual report of the Board of Trustees of The Ohio State University.

The report, as usual, contains such statements and exhibits as are necessary to show the financial transactions of the past year, and the manner in detail of receiving and disbursing the various funds; also such other information as may be of general interest or required by law.

The Annual Report of the President of the University to the Board of Trustees is made a part of this report.

All of which is respectfully submitted.

CARL E. STEEB,
Secretary.

ANNUAL REPORT OF THE PRESIDENT.

Honorable WALTER J. SEARS, Chairman of the Board of Trustees, The Ohio State University.

DEAR SIR:—I have the honor to present, through you, to the Board of Trustees of the Ohio State University for transmission to the Governor of Ohio, as required by law, the forty-third annual report of the President of the Ohio State University for the year ending June 30, 1913. In this connection it may be appropriate to remark that the report submitted for the year ending June 30, 1912, seems to have been lost in transmission and cannot now be reproduced.

THE BOARD OF TRUSTEES

The term of office of the Honorable Frank E. Pomerene expired May 13, 1911. Mr. Pomerene was appointed to succeed himself for the term of seven years. Mr. Pomerene is an alumnus of the University of the College of Arts, Philosophy and Science and also of the College of Law. His services have been characterized by intelligence and fidelity, and his reappointment is a gratification to all the friends of the University. The term of office of the Honorable Oscar T. Corson expired May 13, 1913, and he was succeeded in office by the appointment of the Honorable Benjamin F. McCann of Dayton, for the term of seven years. Mr. Corson, former School Commissioner of Ohio, has served the Board of Trustees for fourteen years with high conception of public duty and an unfailing loyalty to the interests of the University. His retirement from the Board was a matter of universal regret. It was peculiarly gratifying, however, to know that his successor in office, a graduate of Denison University and a Trustee of that Institution, a personal friend of Mr. Corson and a citizen of the highest rank in the city of Dayton, should enter upon his duties with the same high conception of the office of trustee of the Ohio State University that has been traditional for years and so highly exemplified in the men who have honored the state with their gratuitous service.

THE FACULTY

Grateful acknowledgment is made of the fact that during the year death did not enter the ranks of the teaching force of the University.

During the year leave of absence, under the usual rule, for all or part of the year, was granted to the following persons: Professor Thomas Harvey Haines of the department of Psychology, Assistant Pro-

fessor May Thomas of the department of German, Professor H. R. Spencer of the department of Political Science, Assistant Professor C. S. Duncan of the department of English, Professor Charles A. Bruce of the department of Romance Languages, Professor E. A. Hitchcock of the department of Mechanical Engineering. These persons, with the exception of Professor E. A. Hitchcock who resigned to enter commercial work, have returned to the University with renewed enthusiasm and with the educational inspiration gathered from a year's study and observation from educational experiences and methods elsewhere. Every year the conviction grows deeper that an occasional leave of absence for instructors in the University is of the highest value not only for renewing physical vigor, which is the least of the advantages obtained, but for the opportunity to review in a systematic and deliberate way the field of scholarship in which the teacher is working and to observe the current methods of education in other institutions. The research and teaching spirit of a University is kept alert and up to date by the personal contact of leaders in education with other leaders in similar fields. The policy now pursued at the Ohio State University is so well established and so well grounded from every point of view as to encourage the belief in its permanency as a part of the University policy.

The minutes of the Board of Trustees will show the resignations and new appointments for the year. It is sufficient here to remark that these changes are more numerous than desirable. Some of them are made for the reason that younger men after practical experience in the University are given opportunities to enter into commercial and industrial positions at salaries quite beyond the possibility of the University. From one point of view this is not wholly bad; it makes the University a training ground for the higher efficiency of man; it also enables the commercial world to understand the superior quality of men engaged in teaching and research work in the University. On the other hand, it does deprive the University of the type of professor whose retention is highly desirable. Fortunately, not all such men are called to commercial positions or are willing to accept them. The University, however, is confronted with the problem of paying sufficient salaries to men of this quality and of retaining in its services such men.

Occasional transfers from one University to another occur, but these are usually due to two causes: first, the better opportunity for professional service; second, better salaries. It is, however, to be noted that these two items are often one and the same thing, since opportunities for service are usually associated with reasonable salaries. It has not always been so at the Ohio State University, and one of the most pressing problems now existing is the provision of sufficient money for salaries.

THE DISASTER OF 1913

In the last week of March an unparalleled disaster in the form of an excessive rainfall and consequent floods came upon the valleys of the Miami, the Scioto and the Muskingum. The unprecedented volume of water produced conditions never before known in the State of Ohio. At Zanesville, the Muskingum River was fifteen feet higher than the highest record; at Columbus, the Scioto River passed all records and flooded large areas on the west side. All along the Miami River from Piqua south the disaster was beyond description.

Mention is made of this fact here not for the purpose of giving an accurate record of the disaster, but of calling attention to the splendid services rendered gratuitously by the teachers and students of the University. The department of Domestic Science organized headquarters and provided meals for all relief workers for a period of about ten days. In this service both teachers and students engaged with intelligence and efficiency that brought the highest commendations from all official sources.

In the relief work and guard duty rendered by the regiment under the direction of Captain Converse, and also by the students who volunteered to serve under the several committees provided by the city organizations, there was every evidence of the very highest efficiency. The students, as was frequently stated by supervising officials, were both intelligent as to the work to be done and responsive to the needs. They showed in a high degree the results of discipline and the habit of obedience. Communications from the officers in charge bear testimony to the high character of this service. It is impossible to state the exact number of students who participated in this service but the number was not less than one thousand at any given time during the relief period. They were supplied in relays and cheerfully did all that was suggested or required. From another point of view this service rendered in a great emergency was the highest kind of testimony in justification of education. These young men and young women showed beyond question that their education contributed not only to the efficiency of the service they rendered but had developed in them the spirit of public service, ready to meet an emergency when it arises. The state can have no better assurance of the wisdom of its public education than the demonstration of such a spirit as was manifested by the student bodies, not only at the Ohio State University but at other institutions in the time of this unparalleled disaster.

ENROLLMENT

As customary, the summary of enrollment and of degrees granted is given in this report. Attention is called to the fact that the enrollment of the Graduate School is now set out as a separate and distinct item.

ANNUAL REPORT

Graduate School.....	128	128
College of Agriculture—		
Undergraduates (Agr., Hort., Forestry, degree courses).....	641	
Undergraduates (Domestic Science, degree course).....	261	
Undergraduates (Certificate courses).....	177	1,079
College of Arts, Philosophy and Science—		
Undergraduates	854	854
College of Education—		
Undergraduates	132	
Saturday Courses	23	155
College of Engineering —		
Undergraduates (degree courses).....	770	
Undergraduates (certificate courses).....	15	785
College of Law.....	198	198
College of Pharmacy.....	86	86
College of Veterinary Medicine.....	156	156
Total		3,441
Names counted twice.....		33
Net total (Academic year).....		3,408
Summer Session, 1912.....	576	
Lake Laboratory, Summer, 1912.....	24	600
Winter course in Dairying, 1913.....	22	
Winter Course in Agriculture, 1913.....	205	227
Total		4,235
Names counted twice.....		266
Grand net total for year.....		3,969

DEGREES

At the commencement held on June 11, 1913, the University granted a total of 483 degrees. These were distributed as follows:

Graduate School	48
College of Agriculture.....	101
College of Arts, Philosophy and Science.....	140
College of Education.....	29
College of Engineering.....	104
College of Law.....	21
College of Pharmacy.....	5
College of Veterinary Medicine.....	35
Total	483

In addition to the degrees granted, certificates for the completion of courses not leading to degrees were granted as follows:

College of Law.....	12
College of Pharmacy.....	20
College of Veterinary Medicine.....	0
Total	32
Degrees granted during the present academic year.....	32
Total number of degrees and certificates granted for the year ending June 11, 1913.....	547

No special comment is needed upon the statistics recited above. They show the steady increase in enrollment and the steady increase in the number of degrees granted from year to year. At present there seems to be no indication that the patronage of the University is liable to reach a limit. The law making elementary education compulsory has put an added burden and responsibility upon the public schools. Without any compulsion other than the necessity of an education as an essential part of the equipment of complete citizenship, colleges and universities have been confronted with a steadily increasing demand for facilities. It is doubtful whether the public enthusiasm over education has been paralleled with an intelligence as to the necessity of making adequate provision in all grades for the rising tide of attendance. The Ohio State University provides the widest range of education in the state, and for that reason finds itself continually confronted with the problem of revenues adequate to the needs.

SOCIAL STATISTICS

The custom has been for some years to publish in this annual report the religious statistics of the University and the occupational statistics. The demand for these statistics has been so wide spread as to encourage the belief that a real need is met in their publication. It should be noted that these statistics are furnished by the students before they enter college, upon a census blank, and the matter of occupation and classification is the student's own classification and not one imposed by the University. It should also be noted that these statistics apply to the students when they enter college and represent, therefore, the religious and industrial constituency to which the University makes its appeal. In view of the fact that the report for the year ending June 30, 1912, has not yet been recovered, having been lost apparently in transmission from the Governor's office, we insert herein the statistics for two years. It will be observed that in this one item the annual report publishes the statistics in advance, inasmuch as this annual report is not usually prepared until after the beginning of September following the close of the year.

RELIGIOUS STATISTICS, 1912-1913

Baptist	152	Christian Science.....	5
Catholic	216	Christian Union.....	4
Christian	125	Church of God.....	2

Confucius	1	Pietist	1
Congregational	92	Presbyterians	568
Disciples	28	Protestant	27
Dunkards	5	Reformed	100
Episcopal	145	Seventh Day Adventist.....	3
Evangelical	24	Shintoism	1
Friends	20	Spiritualist	1
Gregorian	1	Unitarian	16
Jewish	55	United Brethren.....	84
Lutheran	186	United Presbyterian.....	45
Mennonites	10	Universalist	22
Methodists	1,054	Zion's Reformed.....	1
Mosaic	1	None stated.....	157

RELIGIOUS STATISTICS 1913-1914

All Souls.....	4	Lutheran	238
Baptists	164	Mennonite	13
Catholics	219	Methodists	1,187
Christian	112	Moravians	1
Christian Science.....	11	Mormons	1
Christian Union	7	Pietists	1
Church of Christ.....	46	Presbyterians	655
Church of God.....	1	Progressives	1
Confucius	1	Reformed	110
Congregationalists	206	Spiritualists	1
Disciple	43	Swedenborgians	1
Dunkard	3	Theosophist	1
Episcopalians	155	Unitarians	14
Evangelical Protestant.....	63	United Brethren.....	90
Friends	19	United Presbyterians.....	36
Gregorian	3	Universalists	24
Hebrew	62	None indicated	215

OCCUPATIONAL STATISTICS OF PARENTS, 1912-1913

Architects	9	Druggists	24
Artisans	21	Editors and newspaper men.....	10
Artists	2	Electricians	7
Bakers	2	Engineers	27
Bankers	31	Farmers	815
Barbers	9	Florists	2
Blacksmiths	18	Foremen	28
Bookkeepers and cashiers.....	44	Glass workers	5
Brokers	12	Grain dealers	11
Butchers	8	Grocers	50
Carpenters	61	Hardware dealers	12
Caterers	2	Insurance	28
Clay workers.....	1	Janitors	6
Coal operators and dealers.....	24	Jewelers	7
Confectioners	4	Judges and attorneys.....	107
Contractors	63	Laborers	31
Dairymen	13	Landscape gardeners	2
Dentists	6	Laundry men	3

Leather workers.....	1	Plumbers	10
Librarians	3	Professors and teachers.....	89
Livery men and drivers.....	13	Public service—city, state and government officials.....	110
Lumbermen	20	Publishers and printers.....	12
Manufacturers	80	Railroad employees.....	104
Masons	11	Real estate	52
Mechanics and machinists.....	49	Restaurant and hotel keepers....	5
Merchants	221	Retired	71
Metal workers.....	14	Salesmen, clerks and agents.....	117
Millers	4	Servants	3
Milliners	2	Shoemakers	5
Miners	3	Stationary engineers.....	9
Ministers	58	Stockmen	9
Monument dealers.....	2	Tailors	19
Musicians	1	Tinners	5
Officials of private corporations...	114	Traveling salesmen.....	53
Oil producers.....	5	Undertakers	6
Opticians	2	Veterinary surgeons.....	9
Painters and decorators.....	10	Watchmen	3
Photographers	3	No occupation stated.....	397
Physicians	63		

OCCUPATIONAL STATISTICS OF PARENTS, 1913-1914.

Architects	7	Inventors	1
Attorneys and judges.....	107	Janitors	8
Auctioneers	1	Jewelers	9
Bacteriologists	1	Laborers	32
Bakers	11	Laundrymen	3
Bankers	27	Librarians	2
Barbers	12	Linemen	1
Blacksmiths	17	Liverymen and teamsters.....	20
Brokers	6	Managers and superintendents...	97
Business men	25	Manufacturers	69
Butchers	9	Mechanical engineers.....	3
Carpenters	52	Mechanics	126
Civil engineers	17	Merchants	328
Clergymen	65	Millers	6
Clerks and accountants.....	141	Miners	7
Coal operators and oil producers..	26	Mining engineers.....	3
Contractors	84	Painters and decorators.....	24
Dairymen	11	Photographers	3
Dentists	9	Pilots	1
Druggists	34	Physicians	93
Editors	7	Plumbers	11
Electricians	9	Professors and teachers.....	83
Electrical engineers.....	3	Public service.....	130
Farmers	902	Publishers and printers.....	18
Fishermen	1	Railroad employees.....	121
Florists and gardeners.....	18	Real estate.....	54
Foremen	35	Restaurant and hotel-keepers....	15
Game warden	1	Retired	85
Grocers	56	Salesmen	110
Insurance	48	Shoemakers	6

Stationary engineers.....	13	Tinners	4
Stock dealers.....	16	Undertakers	4
Tailors	30	Veterinary surgeons.....	4
Tanners	1	None given.....	429

SUMMER SESSION

As usual, the report for the Summer Session is given for the period following June 30, but owing to the loss of the report for 1912, there is submitted herewith the reports for the Summer Session of 1912 and of 1913. The only comment of special importance in this connection is that the reduction of the appropriation for the Summer Session for 1912 made it necessary to withdraw a number of courses and thereby reduce the attendance and the service rendered.

TOTAL ATTENDANCE		1913	1912
At Columbus		673	581
At Lake Laboratory.....		31	25
Total		704	606

COLLEGIATE DISTRIBUTION		1913	1912
College of Agriculture.....		53	55
College of Arts, Philosophy and Science.....		229	180
College of Education.....		150	121
College of Engineering.....		134	118
College of Pharmacy.....		4	7
College of Veterinary Medicine.....		6	2
Graduate School		95	81
Auditors		2	17
		673	581

OCCUPATION OF STUDENTS		1913	1912
College Instructors		21	17
High School Superintendents.....		23	14
High School Principals.....		13	16
High School Teachers.....		226	185
College Students		359	313
Miscellaneous			14
Unclassified		31	22
Total		673	581

PREPARATION OF STUDENTS		1913	1912
Hold Degrees		175	137
Collegiate		496	442
Below Collegiate		2	2
Total		673	581

REPORTS TO THE PRESIDENT

I submit herewith as part of this report, certain reports submitted to the President which will be of general interest: (1) The Graduate School; (2) College of Arts, Philosophy and Science; (3) College of Education; (4) Department of Military Science and Tactics; (5) Department of Physical Education; (6) Report from the Lake Laboratory; (7) Report from the Dean of Women; (8) Report of the Department of Agricultural Extension.

APPROPRIATIONS

In accordance with the custom, a statement of the appropriations made by the Legislature in session June 1913, is given in this report. They are as follows:

FOR THE YEAR 1913.

Equipment power house.....	\$14,000 00
Uses and purposes of library.....	5,000 00
Summer Session	10,000 00
Repairs and upkeep buildings, grounds.....	15,000 00
Botany and zoology building.....	75,000 00
Tunnel to archæological museum.....	7,800 00
Storeroom and receiving department building.....	11,000 00
New roof on gymnasium.....	2,000 00
Winter course in highway engineering.....	1,000 00
Agricultural extension work.....	35,000 00
Repair of flood damages to railway.....	6,160 00
Emergency labor on farm due to flood.....	300 00
Equipment power house.....	1,000 00
Equipment new library building.....	10,000 00
Uses and purposes of library.....	10,000 00
Extension hot water heating system.....	16,475 00

BOTANY AND ZOOLOGY BUILDING AND EQUIPMENT; UNEXPENDED BALANCE.

Coal and gas.....	25,000 00
Repairs and upkeep buildings, grounds.....	12,500 00
Water rate	7,000 00
General budget	30,630 00
Apparatus and equipment College of Veterinary Medicine.....	5,000 00
Apparatus and equipment College of Arts.....	825 00
Apparatus and equipment College of Engineering.....	7,000 00
Apparatus and equipment College of Agriculture.....	10,000 00
Horticulture and forestry building, cost not to exceed \$150,000.00.....	75,000 00
Remodeling Page Hall—a/c archæology.....	4,000 00
Remodeling Orton Hall—a/c library.....	2,000 00
Incinerators for disposal of garbage.....	1,000 00
Motor truck—electric	2,500 00
New roads	1,000 00
Sidewalks	2,000 00
Fire protection	2,500 00
Official milk testing for advanced registry in co-operation with dairymen	2,000 00
Receipts and balances.....	.....

Total \$409,690 00

FOR THE YEAR 1914.

Additional farm lands and improvements.....	\$42,000 00
Equipment power house.....	15,000 00
Equipment new library building.....	10,000 00
Uses and purposes of library.....	20,000 00
Extension hot water heating system.....	7,280 00
Summer session	10,000 00
Graduate school	2,500 00
Coal and gas.....	26,000 00
Repairs and upkeep buildings, grounds.....	28,000 00
Water rate	7,000 00
General budget	35,000 00

APPARATUS AND EQUIPMENT COLLEGE OF VETERINARY MEDICINE; BALANCES.

Apparatus and equipment College of Education.....	500 00
Apparatus and equipment College of Arts.....	935 00
Apparatus and equipment College of Engineering.....	12,000 00
Apparatus and equipment College of Agriculture.....	10,000 00
Botany and zoology building equipment.....	15,000 00
Horticulture and forestry building.....	75,000 00
Horticulture and forestry building equipment.....	15,000 00
Remodeling cattle building—dairy wing.....	1,000 00
Freight house and kiln room.....	12,200 00
Woodworking machinery for repair shops.....	1,600 00
New roads	1,000 00
Sidewalks	2,000 00
Winter course in highway engineering.....	1,000 00
Fire protection	2,500 00
Biological survey in co-operation with Ohio colleges.....	2,500 00
Official milk testing for advanced registry in co-operation with dairymen	2,500 00
Agricultural extension work.....	35,000 00
Sheep building	5,000 00
Dormitory for Lake Laboratory.....	2,500 00
	<hr/>
	\$400,015 00

CONCLUSION

The usual statistical tables as required by law are submitted herewith as a part of this report in the form of numbered Appendixes.

Appreciation is hereby expressed for the co-operation of trustees, faculty and students in the administration of the University. Aside from the interruption of work caused by the disastrous flood in March, the work of the year has gone steadily forward. A study of the statistical tables will be found instructive to any one desiring to get a clear grasp of the work of the University or to measure its progress.

Respectfully submitted,

W. O. THOMPSON,
President.

FINANCIAL REPORT
OF
THE OHIO STATE UNIVERSITY

For the Year Ending June 30, 1913

SCHEDULES A TO N

(15)

CONTENTS.

- SCHEDULE A. Consolidated Statement—Income and Expenditures, Assets and Liabilities.
- SCHEDULE B-1. Income.
- SCHEDULE B-2. Details of Income from Students.
- SCHEDULE C-1. Classified Expenditures.
- SCHEDULE C-2. Expenditures by Departments or Divisions.
- SCHEDULE C-3. Details of Expenses.
- SCHEDULE C-4. Details of Expenditures Which Increase the Assets of the University.
- SCHEDULE C-5. Details of Salaries—Instruction.
- SCHEDULE D. Balance Sheet.
- SCHEDULE E. Cash Receipts and Disbursements—Cash Balance.
- SCHEDULE F. Accounts Receivable.
- SCHEDULE G. Securities: Bonds, Stocks and Real Estate Mortgages.
- SCHEDULE H. Additions to Lands, Buildings and Equipment.
- SCHEDULE I. Bonds and Mortgages.
- SCHEDULE J. Educational Plant: Lands, Buildings and Equipment.
- SCHEDULE K. Endowment for General Purposes.
- SCHEDULE L. Endowment Funds for Designated Purposes.
- SCHEDULE M. State Aid—Special Appropriations.
- SCHEDULE N. Oxley Hall—Receipts and Disbursements—Supplemental.

CONSOLIDATED STATEMENT.

INCOME AND EXPENDITURES.		<i>Schedule A</i>
Cash balance July 1, 1912.....		\$11,019 72
Total income for year, <i>Schedule B-1</i>	\$1,063,309 24	
Total expenditure for year, <i>Schedule C-1</i>	1,065,162 82	
Net deficit for year.....		1,853 58
Cash balance June 30, 1913.....		\$9,166 14
ASSETS AND LIABILITIES.		
Current assets at end of year, <i>Schedule D</i>	\$544,162 66	
Current liabilities at end of year, <i>Schedule D</i>		\$478,989 52
Investment assets at end of year, <i>Schedule D</i>	972,230 35	
Investment liabilities at end of year, <i>Schedule D</i>		972,230 35
Educational Plant—		
Value of lands, buildings and equipment,		
<i>Schedule D</i>	4,703,281 50	
Net investment or capital account..		4,768,454 64
	\$6,219,674 51	\$6,219,674 51

INCOME.

Description	Items	Totals
INCOME FROM STUDENTS:		
Tuition, incidental and laboratory fees, <i>Schedule B-2</i>	\$95,724 00	
Special fees, degrees, etc., <i>Schedule B-2</i>	3,097 00	
For supplies, chemicals, laboratory material, etc.....	24,741 95	
For dormitories—Oxley Hall.....	18,506 79	
For dining halls—details.....		
For locker rent.....	2,854 35	
		\$144,924 09
INCOME FROM INVESTMENTS OF:		
Endowments for general purposes, <i>Schedule K</i> (see below).....		
Endowments for designated purposes, <i>Schedule L</i> (see below).....		
Other investments (if any).....		\$.....
INCOME FROM GRANTS BY NATION, STATE AND SPECIAL TAXATION:		
State Aid: Income from endowments granted by State.....		
Income from endowments for general purposes.....	12,735 10	
Income from endowments for designated purposes.....	3,261 47	
Tax levy for current expenses (rate mills) 16-100.....	399,754 27	
Appropriation for current expenses.....		
Tax levy for building or other special purposes.....		
Appropriations for buildings or other special purposes.....	360,225 68	
Federal Aid: Income from land grant act of July 2, 1862, (Paid by State)	31,450 59	
Income from other land grants—Va. Mil. Lands (Paid by State)	9,404 49	
Additional aid acts of Aug. 30, 1890, and March 4, 1907	50,000 00	
		\$866,831 60
GIFTS FOR CURRENT EXPENSES:		
For general purposes.....		
(Details)		
For designated purposes.....		
(Details: such as gifts for immediate use on lands, buildings, etc.)		
Ohio Biological Survey.....	\$225 00	
Ohio Good Roads Federation.....	372 23	
Senior Class of 1912.....	882 17	
		\$1,479 40
INCOME FROM OTHER SOURCES:		
(Details)		
Industrial Arts	\$181 56	
Architecture Photo	286 10	
For interest on deposits.....	542 88	
For rents—buildings	1,246 00	
For sale of produce—dairy and farm.....	28,130 13	
For veterinary clinic.....	1,718 05	
For Virginia Military Lands.....	726 50	
For testing cows.....	5,211 36	
For Miscellaneous sales, old material, etc.....	1,694 04	
Agricultural Extension	23 90	
University Architect Fees.....	1,750 00	
		\$41,510 52
TEMPORARY ACCOUNTS:		
Refunds and reimbursements.....	\$8,563 63	
		\$8,563 63
Total income		\$1,063,309 24

RECEIPTS FROM STUDENTS.

	Arts	Agriculture	Education	Engineering	Law	Pharmacy	Veterinary Medicine	Summer School	Graduate	Normal	Total
Number of students registered.....	768	1139	125	762	182	81	150	601	110		3918
Number of students paying fees.....	768	1016	125	762	181	81	137	598	60		3728
Number of students admitted without payment	0	123	0	0	1	0	13	3	50		190
TUITION, INCIDENTAL AND LABORATORY FEES:											
Net receipts from all students....	\$17,703 00	\$29,633 00	\$2,978 50	\$21,159 00	\$10,762 00	\$2,466 00	\$1,719 50	\$5,016 00	\$1,287 00		\$95,724 00
Total amount of fees paid from scholarships or fellowship funds..											
Total receipts on account of fees corresponding to 1st item, <i>Schedule B-1</i>											
Tuition fee paid per student.....					45 00						
Incidental fee paid per student....	20 00	20 00	20 00	20 00	15 00	20 00	20 00	8 00	20 00		
Non-resident of State.....	10 00	10 00	10 00	10 00	10 00	10 00	10 00		10 00		
Incidental fee Lake Laboratory....								20 00			
SPECIAL FEES:											
Auditor's fees											\$50 00
Special examinations											196 00
Diplomas											2,851 00
Total receipts on account of special fees corresponding to 2nd item, <i>Schedule B-1</i>											\$3,097 00

CLASSIFIED EXPENDITURES

	Items	Totals
EXPENSE:		
Salaries	\$560,804 00	
*Employees and extra labor.....	58,597 45	
Material and general supplies.....	46,075 03	
Laboratory supplies	38,470 81	
Coal and gas.....	20,060 55	
Water	7,052 50	
Stationery and office supplies (including postage).....	10,022 27	
Printing, bulletins and catalogues.....	13,563 28	
Advertising	644 56	
Traveling expenses	9,342 56	
Oxley Hall—food supplies.....	7,021 20	
Repairs—equipment	6,267 03	
Repairs—University Hall—contract		
Freight and cartage.....	4,034 96	
Incidentals	11,343 01	
Feed—live stock	6,307 82	
Virginia Military Lands.....	2,788 03	
Cow testing (see receipts).....	5,188 86	
Trustees' expenses	131 15	
Research		
Scholarships and student aid.....	3,002 50	
Interest on bonded debt.....	675 00	
Total Expenses, Schedule C-2.....		\$811,342 07
EQUIPMENT:		
Apparatus	\$17,040 42	
Books	20,091 37	
Collections	382 50	
Furniture and fixtures.....	14,091 97	
Horses, wagons and harness.....	723 50	
Live stock	2,112 32	
Machinery, tools and implements.....	4,502 43	
Tunnels, conduits and heating lines.....	20,275 64	
Total equipment, Schedule C-2.....		\$79,220 15
FARM LANDS:		
NEW BUILDINGS, Schedule C-2.....		\$123,879 17
RAILWAY, Schedule C-2.....		7,172 15
SEWERS, Schedule C-2.....		
GRADING, PLANTING, ROADS, WALKS, ETC., (new walks)....		4,985 65
BONDS—Redeemed		30,000 00
TEMPORARY ACCOUNTS:		
Refunds and reimbursements.....		8,503 63
Total Expenditures		\$1,065,162 82

* Amount paid students \$17,803.79.

Schedule C-2

EXPENDITURES BY DEPARTMENTS OR DIVISIONS

Description	Expense Items	Totals	Equipment Items (Assets)	Totals	Total Cost of Department or Division	Totals
DEPARTMENTS:						
<i>(Details Expense items, Sch. C-3; Details equipment items, Sch. C-4)</i>						
Agricultural Chemistry ...	\$8,129 58		\$68 00		\$8,187 58	
Agronomy	7,470 32		1,724 48		9,194 80	
American History	4,806 82		27 50		4,834 32	
Anatomy and Physiology ..	8,031 36		20 00		8,051 36	
Animal Husbandry	24,833 81		2,273 77		27,107 58	
Architecture	5,551 00		130 40		5,681 40	
Art	4,786 22		196 55		4,982 77	
Astronomy	4,462 44		134 34		4,596 78	
Bacteriology	6,641 24		671 19		7,312 43	
Botany	9,495 48		827 00		10,322 48	
Ceramic Engineering	8,825 06		76 83		8,901 89	
Chemistry	23,853 09		417 10		24,270 19	
Civil Engineering	13,965 67		408 00		14,363 67	
Dairying	28,514 43		1,464 52		29,978 95	
Economics and Sociology ..	15,484 71		14 50		15,499 21	
Electrical Engineering	10,546 09		3,123 34		13,670 03	
Engineering Drawing	13,171 46		76 35		13,247 82	
English	20,373 31		213 44		20,586 75	
European History	6,267 46		125 48		6,392 94	
Forestry	4,770 55		617 71		5,388 26	
Geology	8,464 23		12 35		8,476 58	
German	11,627 69		15 42		11,643 11	
Greek	5,150 50		21 00		5,171 50	
His. and Philosophy of Ed.	3,013 38		320 16		3,333 54	
Home Economics	8,909 14		207 43		9,116 57	
Horticulture	9,431 98		411 17		9,843 15	
Industrial Arts	13,934 00		26 57		13,960 57	
Latin	5,158 40		66		5,224 40	
Law	18,483 74		55 15		18,538 89	
Manual Training	1,515 57				1,515 57	
Mathematics	18,162 52				18,162 52	
Mechanical Engineering	12,307 11		2,408 95		14,716 06	
Mechanics	4,823 25		1 75		4,825 00	
Metallurgy and Mineralogy	6,508 24		469 18		6,977 42	
Meteorology	500 00				500 00	
Military Science	2,871 24		226 57		3,097 81	
Mine Engineering	4,830 32		90 70		4,921 02	
Pharmacy	6,331 80		234 59		6,566 39	
Philosophy	4,750 56		7 75		4,758 31	
Physical Education	9,065 97		932 26		9,998 23	
Physics	17,290 80		184 42		17,475 22	
Political Science	4,316 80				4,316 80	
Poultry			396 59		396 59	
Principles and Prac. of Ed.	1,841 28				1,841 28	
Psychology	7,983 16		16 01		7,999 17	
Romance Languages	11,658 97		20 00		11,678 97	
Rural Economics	13,901 68		2,779 58		16,681 26	
School Administration	4,785 99		48 06		4,834 05	
Veterinary Medicine	22,016 76		2,069 16		24,085 92	
Zoology and Entomology ..	10,796 71		300 25		11,096 96	
Total Departments		\$480,582 49		\$23,755 23		\$504,337 72
Summer Schools	14,280 22		35 00		14,315 22	
Winter Course Lectures ..	849 65				849 65	
Extension Work	250 00				250 00	
Total		\$15,379 87		\$35 00		\$15,414 87
Forward		\$195,962 36		\$23,790 23		\$519,752 59

Schedule C-2—Continued

EXPENDITURES BY DEPARTMENTS OR DIVISIONS—Continued

Description	Expense Items	Totals	Equipment Items (Assets)	Totals	Total Cost of Department or Division	Totals
Brought forward.....		\$495,962 36		\$23,790 23		\$519,752 59
LIBRARY	\$25,435 00		\$25,504 51		\$50,939 51	
Total Library.....		\$25,435 00		\$25,504 51		\$50,939 51
SPECIAL FUNDS:						
(Details expense items in Sch. C-3; Details equipment items in Sch. C-4)						
Winter Course in Highway Eng.	\$372 23				\$372 23	
University Architect.....	4,343 63		\$211 34		4,554 97	
Architecture Photo.....	430 35				430 35	
Archaeology	745 48				745 48	
High School Visitors.....	5,418 59				5,418 59	
Agricultural Extension ...	41,708 25		1,120 66		42,828 91	
Ohio Biological Survey....	5 50				5 50	
Total Special Funds.....		\$53,024 03		\$1,332 00		\$54,356 03
ADMINISTRATION AND GENERAL ACCOUNTS:						
Executive Offices	\$41,763 81		\$1,314 37		\$43,078 18	
(Details expense items in Sch. C-3; Details equipment items in Sch. C-4)						
Store Room	25,750 54		1,922 59		27,673 13	
(Details expense items in Sch. C-3; Details equipment items in Sch. C-4)						
General Accounts	26,064 22		1,410 04		27,474 26	
(Details expense items in Sch. C-3; Details equipment items in Sch. C-4)						
Commencement Exercises..	1,566 03				1,566 03	
(Details Schedule C-3)...						
Trustees' expenses	131 15				131 15	
Advertising	644 56				644 56	
Water	7,052 50				7,052 50	
Total—Adm. and Gen'l.		\$102,972 81		\$4,647 00		\$107,619 81
OPERATION, MAINTENANCE & EQUIPMENT OF PLANT:						
Salaries: Janitors, caretakers, etc.	\$23,171 22				\$23,171 22	
Salaries: Supt. Bldg., Engineers, mechanics, etc.	17,565 51				17,565 51	
Coal and Gas.....	20,060 55				20,060 55	
Heat, power and light plant	13,492 90		22,858 85		36,351 84	
(Details expense items in Sch. C-3; Details equipment items in Sch. C-4)						
Roads and Grounds.....	15,212 35		491 11		15,703 46	
(Details expense items in Sch. C-3; Details equipment items in Sch. C-4)						
Repairs, Buildings, Contracts, University Hall	3,812 53				3,812 53	
Repairs, Buildings, (Current)	15,262 22		176 01		15,438 23	
(Details Schedule C-3)...						
Total Operation, Maintenance and Equipment....		\$108,577 37		\$23,525 97		\$132,103 34
Amt. forward.....		\$785,971 57		\$78,799 71		\$864,771 28

Schedule C-2—Continued

EXPENDITURES BY DEPARTMENTS OR DIVISIONS—Continued

Description	Expense Items	Totals	Equipment Items (Assets)	Totals	Total Cost of Department or Division	Totals
Total brought forward.		\$785,971 57		\$78,799 71		\$864,771 28
DORMITORIES AND DINING HALLS:						
(Details expense items in Sch. C-3; Details equipment items in Sch. C-4)						
Oxley Hall (see Receipts).	\$13,766 11		\$420 44		\$14,186 55	
Total Dormitories, etc.		\$13,766 11		\$420 44		\$14,186 55
MISCELLANEOUS EXPENSES:						
Virginia Military Lands...	\$2,788 03				\$2,788 03	
Cow testing (see Receipts)	5,138 86				5,138 86	
Scholarships and Student Aid	3,002 50				3,002 50	
Total Misc. Expenses....		\$10,929 39				\$10,929 39
INTEREST on bonded debt		675 00				675 00
Total Ex. and Equip....		\$811,342 07		\$79,220 15		\$890,562 22
NEW LANDS:						
Farm Lands (14 acres)....						
NEW BUILDINGS:						
(Details in Sch. C-4)						
Contracts			\$120,478 78			
Architects			2,556 52			
Inspection						
Printing and Advertising..			75 41			
Freight, extra labor and material			768 46			
Total Expenditures for New Buildings						\$123,879 17
RAILWAY:						
Contracts			\$602 06			
Engineering and Inspection						
Printing and Advertising..			6 71			
Freight, extra labor and material			6,503 38			
Total Expenditures for Railway						\$7,172 15
SEWERS:						
Contracts						
Printing and Advertising..						
Engineering and Inspection						
Freight, extra labor and material						
Total Expenditures for Sewers						
GRADING, PLANTING, ROADS, WALKS, ETC.						
(Details):						
Landscape, Architect						
Labor and Material.....			\$4,966 93			
Advertising			18 72			
Total						\$4,985 65
BONDS—Redeemed						\$30,000 00
TEMPORARY ACCOUNTS:						
Refunds and reimbursements						\$8,563 43
Total Expenditures						\$1,065,162 82
Schedule C-1						

DEPARTMENTAL EXPENSES

Department or Division	Salaries Instruction	Salaries Superintendent and Others	Employees and Extra Labor	Stationery and Office Supplies	Incidentals	Laboratory Supplies	Material and General Supplies	Repairs of Equipment	Freight and Cartage	Feed	Research	Total Expenses
Agricultural Chemistry.....	\$7,660 00		\$272 03	\$14 72	\$3 82	\$181 25	\$2 25		\$5 51			\$8,129 58
Agronomy	6,735 00		374 12	75 44	1 50	105 82	142 00	22 60	33 84			7,470 32
American History	4,800 00			3 17	10			2 00	55			4,806 82
Anatomy and Physiology.....	8,000 00			3 57		23 00	3 01		1 78			8,031 36
Animal Husbandry	8,800 00	\$1,200 00	6,770 49	159 99	1,120 03	83 55	1,156 67	123 46	492 99	\$5,421 63		24,833 81
Architecture	5,500 00		17 55	9 84	1 68		14 72	5 95	1 26			5,551 00
Art	4,550 00		111 25	10 80		40 36	16 30	46 60	4 91			4,786 22
Astronomy	4,350 00		14 04	8 93	15 17		67 39		6 91			4,462 44
Bacteriology	6,000 00	30 00	161 99	17 10	8 91	176 42	237 28	16	9 38			6,641 24
Botany	8,750 00	600 00	4 28	39 69	5 30	75 27	1 72	6 87	12 35			9,495 48
Ceramic Engineering	7,850 00	540 00	39 68	19 99	6 05	174 04	104 75	45 52	45 03			8,325 06
Chemistry	21,810 00		922 73	235 44	35 24	632 92	118 53	73 60	24 63			23,855 09
Civil Engineering	13,550 00		139 46	58 84	46 64	67 35	39 86	27 39	26 13			13,955 67
Dairying	6,616 67		4,586 65	235 27	260 08	14,733 61	1,627 05	373 53	181 57			28,514 43
Economics and Sociology....	15,450 00			19 13			2 50		13 08			15,484 71
Electrical Engineering	7,200 00	1,020 00	662 77	99 44	55 49	609 61	649 74	121 36	128 28			10,546 69
Engineering Drawing	13,000 00			150 06	9 90		6 55	2 00	2 96			13,171 46
English	20,850 00			22 93					38			20,873 31
European History	6,250 00		23	16 40				23	60			6,267 46
Forestry	4,500 00		192 04	25 77		24 45	24 00	75	3 54			4,770 55
Geology	8,350 00		3 00	8 53	43 32	7 57	2 94		48 82			8,464 23
German	11,600 00			27 09					60			11,627 69
Greek (Latin)	5,150 00								50			5,150 50
History and Philosophy of												
Education	3,000 00			12 63					70			3,013 38
Home Economics	7,340 00	350 00	35 87	69 40	77 37	1,061 28	34 80	21 89	8 53			8,999 14
Horticulture	6,650 00		2,157 59	125 18	15 71	313 57	119 66	6 03	46 24			9,431 98
Industrial Arts	11,280 00		614 29	17 50	34 15	1,196 32	602 18	84 77	104 79			13,934 00
Latin (see Greek).....	5,150 00		46	6 40					1 55			6,158 40
Law	18,400 00			57 22	24 34			50	1 68			18,483 74
Manual Training	1,500 00			2 02	70	10 40	15		2 30			1,515 57
Mathematics	18,150 00			5 32	6 00		1 20					18,162 52
Mechanical Engineering	9,400 00	1,740 00	22 75	60 11	158 00	206 29	440 19	132 28	147 49			12,307 11
Mechanics	4,800 00		8 90	12 28					2 07			4,823 25
Metallurgy and Mineralogy..	5,600 00		706 44	37 43	38 91	134 07	54 33	5 16	21 90			6,598 24

Meteorology	500 00										500 00
Military Science and Tactics	800 00	1,457 50	16 20	39 86	253 84		239 11	84	63 89		2,871 24
Mine Engineering	4,550 00		66 70	32 25	47 82	29 08	82 97	8 78	12 72		4,830 32
Pharmacy	6,200 00		29 28	36 10	24	60 43	1 74	3 81	70		6,331 80
Philosophy	4,750 00			56							4,750 56
Physical Education	7,650 00	360 00	448 05	82 19	356 94		124 21	21 55	23 03		9,065 97
Physics	15,350 00	1,200 00	182 98	54 41	10 60	165 63	261 40	49 41	16 37		17,290 80
Political Science	4,300 00		3 35	10 10				3 00	35		4,316 80
Principles and Practice of Education	1,800 00			21 28	30 00						1,841 28
Psychology	7,950 00		11 50	4 00	2 85	5 50	3 81	3 50	2 50		7,983 16
Romance Languages	11,650 00			8 97							11,658 97
Rural Economics	4,200 00	300 00	5,771 81	259 34	746 00	87 92	1,445 56	112 16	92 70	886 19	13,901 68
School Administration	4,750 00			28 94	70	15	4 65		1 55		4,785 99
Veterinary Medicine	17,000 00	700 00	573 59	139 43	188 25	1,360 02	1,978 18	11 67	65 62		22,016 76
Zoology and Entomology.....	10,700 00		75	29 88	19 57	29 57	9 63		7 81		10,796 71
Total Department Exp....	\$399,731 67	\$9,497 50	\$24,922 81	\$2,412 54	\$3,615 22	\$21,606 45	\$9,520 33	\$1,297 87	\$1,670 08	\$6,307 82	\$480,582 49

DEPARTMENTAL EXPENSES—Continued

Department or Division	Salaries	Salaries, Assistants, Clerks and Sten- ographers	Employees and Ex- tra Labor	Stationery and Office Supplies	Incidentals	Laboratory Supplies	Material and Gen- eral Supplies	Repairs of Equip- ment	Freight and Cart- age	Traveling expenses	Printing Bulletins and Catalogs	Totals
SPECIAL INSTRUCTION:												
Extension Work										\$250 00		\$250 00
Summer Schools	\$13,047 00	\$200 00	\$94 29	\$117 76	\$123 42	\$10 50	\$112 47	\$27 31	\$47 47			13,780 22
Winter Course Lectures..	1,005 00		101 95	55 25	14 00			1 55		77 60	94 30	1,349 65
Total Special Instruction												
Department Expense...	\$14,052 00	\$200 00	\$196 24	\$173 01	\$137 42	\$10 50	\$112 47	\$28 86	\$47 47	\$327 60	\$94 30	\$15,379 87
LIBRARY	2,000 00	11,807 50	3,187 46	465 48	902 41		4,312 35	2,273 50	486 30			25,435 00
SPECIAL FUNDS:												
University Architect.....	\$1,600 00	\$1,160 00	\$1,372 03	\$89 85	\$14 15		\$100 01		\$7 59			\$4,343 63
Architecture Photo.....			273 75	1 15		\$138 97	7 48	\$7 50	1 50			430 35
Archaeology	720 00		14 81	6 37			4 30					745 48
High School Visitors.....	4,400 00		5 12	92 47	25 00		45		1 50	\$894 05		5,418 59
Agricultural Extension...	24,298 80	2,689 80	1,073 97	1,858 63	652 45		546 02	30 43	549 98	6,590 53	3,417 64	41,708 25
Ohio Biological Survey...			4 00		1 50							5 50
Winter Course in High- way Engineering.....	240 00				73		1 00			130 50		372 23
Total Special Funds....	\$31,258 80	\$3,849 80	\$2,739 68	\$2,052 47	\$693 83	\$138 97	\$659 26	\$87 93	\$560 57	\$7,615 08	\$3,417 64	\$53,024 03
EXECUTIVE OFFICES:												
President	\$7,000 00	\$2,100 00		\$333 87	\$156 04			\$15 75	\$13 56		\$12 60	\$9,631 82
Secretary	2,750 00	8,452 50	\$33 80	704 58	219 43			27 75	28 99		166 65	12,883 70
Registrar	1,600 00	2,520 00	425 00	149 28	33 80			1 00	3 62		448 02	5,180 72
Dean of Women	2,000 00		9 40	36 64	6 65				9 34		1 45	2,063 48
Editor and Board of Pub- lication	1,800 00	550 00	1,194 55	837 63	68 15		\$44 04		237 28		5,268 03	9,999 68
Entrance Board	800 00	600 00		13 55	19 20				1 10		1 10	1,434 95
Offices—Graduate School, etc.	780 00		22 90	201 46	53 71		72	7 50	3 57		19 60	1,069 46
Total Executive Offices.	\$16,710 00	\$14,222 50	\$1,686 65	\$2,277 01	\$556 98		\$44 76	\$52 00	\$207 46		\$5,917 45	\$41,763 81

STORE ROOM	1,300 00	2,115 00	2,165 39	583 95	90 99	\$16,714 39	\$2,500 08	97 59	183 15			25,750 54
GEN'L EXPENSE ACCT.		11,055 00	1,948 01	1,957 00	3,593 45		1,908 11	102 50	144 83	\$1,399 88	3,954 84	26,064 22
COMMENCEMENT EXERCISES			256 03	43 12	840 10	179 05	244 63		3 10			1,566 03
HEAT, POWER & LIGHT		40,736 73	6,813 88	35 44	219 38		4,288 94	1,804 01	331 34			54,229 72
ROADS AND GROUNDS..			5,140 57		19 56		9,526 67	261 01	264 54			15,212 35
REPAIRS—Bldgs., Current			6,113 47	1 40	438 21		12,210 16	269 71	41 80			19,074 75
OXLEY HALL	1,600 00	667 50	3,428 26	20 25	235 46	Food Supplies 7,021 20	747 07	42 05	4 32			13,766 11

LANDS, BUILDINGS AND EQUIPMENT
EQUIPMENT

DEPARTMENT OR DIVISION	Apparatus	Books	Collections	Furniture and Fix- tures	Horses, Wagons and Harness	Live Stock	Machinery, Tools and Implements	Totals
Agricultural Chemistry	\$58 00							\$58 00
Agronomy	1,357 26			\$355 82			\$11 40	1,724 48
American History				27 50				27 50
Anatomy & Physiology	20 00							20 00
Animal Husbandry	68 08			76 11	\$31 00	\$2,052 32	46 26	2,273 77
Architecture	38 40			92 00				130 40
Art	61 50			135 05				196 55
Astronomy	92 73			35 00			6 61	134 34
Bacteriology	505 19			166 00				671 19
Botany	808 75	\$18 25						827 00
Ceramic Engineering	61 90	6 25		8 68				76 83
Chemistry	371 90			42 74			2 46	417 10
Civil Engineering	299 46			108 24			30	408 00
Dairying	1,394 82			49 97			19 73	1,464 52
Economics and Sociology				14 50				14 50
Electrical Engineering	2,787 00			303 97			32 37	3,123 34
Engineering Drawing	66 36			10 00				76 36
English		57 19		156 25				213 44
European History								
Forestry	71 98			53 50				125 48
Geology	82 91	10 80	281 00	143 00				517 71
German	4 50	5 60		2 25				12 35

Greek	12 00	3 42						15 42
History and Philosophy of Education.	21 00							21 00
Home Economics	133 03			187 13				320 16
Horticulture	206 93			50				207 43
Industrial Arts	405 37						5 80	411 17
Latin	23 15	3 42						26 57
Law				65				65
Manual Training	47 36						7 79	55 15
Mathematics								
Mechanical Engineering	2,355 55			9 82			43 58	2,408 95
Mechanics				1 75				1 75
Amount forward.....	\$11,355 13	\$104,93	\$281 00	\$1,980 43	\$31 00	\$2,052 32	\$176 30	\$15,981 11

LANDS, BUILDINGS AND EQUIPMENT
EQUIPMENT—Continued

DEPARTMENT OR DIVISION	Apparatus	Books	Collections	Furniture and Fix- tures	Horses, Wagons and Harness	Live Stock	Machinery, Tools and Implements	Totals
Brought forward	\$11,355 13	\$104 93	\$281 00	\$1,980 43	\$31 00	\$2,052 32	\$176 30	\$15,981 11
Metallurgy and Mineralogy.....	427 68		37 50	4 00				469 18
Meteorology.....								
Military Science and Tactics.....	47 25			179 32				226 57
Mine Engineering	65 45			25 25				90 70
Pharmacy	115 24			119 25			10	234 59
Philosophy				7 75				7 75
Physical Education.....	582 51			349 45			30	932 26
Physics	163 43			12 50			8 49	184 42
Political Science.....								
Poultry	195 78			30 75		60 00	109 06	395 59
Principles and Practice of Education..								
Psychology.....	16 01							16 01
Romance Languages.....				20 00				20 00
Rural Economics.....	93 17			310 55	616 00		1,759 86	2,779 58
School Administration.....	39 56			8 50				48 06
Veterinary Medicine	1,597 39		19 00	414 36	1 50		36 91	2,069 16
Zoology and Entomology.....	98 65		45 00	148 20			8 40	300 25
Total Department Equipment.....	\$14,797 25	*\$104 93	\$382 50	\$3,610 31	\$648 50	\$2,112 32	\$2,099 42	\$23,755 23

*Added to Library Equipment.....				\$35 00				\$35 00
Summer Schools.....								
Winter Course Lectures.....								
Total Special Department Equipment.				\$35 00				\$35 00

LANDS, BUILDINGS AND EQUIPMENT
EQUIPMENT—Continued

DEPARTMENT OR DIVISION	Apparatus	Books	Collections	Furniture and Fix- tures	Horses, Wagons and Harness	Live Stock	Machinery, Tools and Implements	Tunnels, Conduits and Heating Lines	Totals
Brought forward.....	\$14,797 25	\$104 93	\$382 50	\$3,645 31	\$648 50	\$2,112 32	\$2,099 42		\$23,790 23
LIBRARY		19,972 94		5,531 57					25,504 51
SPECIAL FUND.....									
High School Visitors.....									
Agricultural Extension.....	468 74	5 50		644 63			1 79		1,120 66
University Architect.....				203 66			7 68		211 34
Total Special Funds.....	\$468 74	5 50		\$848 29			\$9 47		\$1,332 00
ADMINISTRATION AND GEN- ERAL:									
Executive offices:									
President				93 40					93 40
Secretary				498 12					498 12
Registrar				173 98					173 98
Editor—Board of Pub- lication		8 00		138 47			85		147 32
Dean of Women.....				248 10					248 10
Graduate School, etc....				153 45					153 45

Store room	1,774 43			140 76			7 40		1,922 59
General				1,438 25					1,438 25
Total Administration and General	\$1,774 43	*\$8 00		\$2,884 53			\$8 25		\$4,675 21
PLANT EQUIPMENT:									
Heat, Power and Light Plant				673 73			1,909 48	20,275 64	22,858 85
Roads and Grounds				88 10	75 00		328 01		491 11
Total Plant and Equipment.				\$761 83	\$75 00		\$2,237 49	\$20,275 64	\$23,349 96
DORMITORIES AND DINING HALL:									
Oxley Hall				420 44					420 44
Total expenditures for Equipment, <i>Schedule C-2</i> .	\$17,040 42	\$20,091 37	\$382 50	\$14,091 97	\$723 50	\$2,112 32	\$4,502 43	\$20,275 64	\$79,220 15

*Added to Library Equipment.

Schedule C-4—Continued.

LANDS, BUILDINGS AND EQUIPMENT

LANDS

DESCRIPTION	Items	Totals
Farm lands	\$.....	
Sewers		
Railway to grounds.....	7,172 15	
Grading, planting, roads, walks, etc.....	4,985 65	
Total expenditures for lands and improvements, <i>Schedule C-2</i>		\$12,157 80
BUILDINGS		
Storage building	\$9,885 81	
Poultry building	2,692 00	
Botany and Zoology building.....	7,931 23	
Coal handling plant.....	6,815 70	
Store Room and Receiving Department building.....	1,935 12	
Library building	94,619 31	
Total expenditures for buildings for year, <i>Schedule</i> <i>C-2</i>		\$123,879 17

DEPARTMENTAL SALARIES—INSTRUCTION

Schedule C-5

College or Department		Professors	Emeritus Professors	Associate Professors	Assistant Professors	Instructors	Assistants	Fellows	Student Assistants	Lecturers	Totals
Agricultural Chemistry	{ No. 2 †(2) Amt. \$2,450 00		1	1	1			3 \$900 00			\$7,650 00
Agronomy	{ No. 1 Amt. 2,200 00				2 3,300 00		*3 1,235 00				6,735 00
American History	{ No. 1 Amt. 3,000 00		1 1,800 00								4,800 00
Anatomy and Physiology	{ No. 1 Amt. 2,750 00		1 1,700 00	1 1,400 00	1 1,000 00	3 900 00			1 250 00		8,000 00
Animal Husbandry	{ No. 1 Amt. 3,000 00			1 1,500 00	1 1,400 00	2 2,400 00					8,300 00
Architecture	{ No. 1 Amt. 1,900 00		1 1,800 00		1 1,500 00				1 300 00		5,500 00
Art	{ No. 1 Amt. 2,000 00				2 2,550 00						4,550 00
Astronomy	{ No. 1 Amt. 2,750 00		1 1,600 00								4,350 00
Bacteriology	{ No. 2 †2 Amt. 2,850 00			1 1,600 00		2 1,550 00					6,000 00
Botany	{ No. 1 Amt. 2,250 00			2 3,200 00	2 2,700 00			1 300 00	2 300 00		8,750 00
Ceramic Engineering	{ No. 3 Amt. 7,250 00						1 600 00				7,850 00
Chemistry	{ No. 5 Amt. 11,000 00	1 1,250 00		1 1,500 00	12 1,480 00	15 3,220 00	(1) 12 3,360 00				21,810 00
Civil Engineering	{ No. 3 Amt. 7,250 00			2 3,200 00	2 2,500 00		1 600 00				13,550 00
Dairying	{ No. 1 Amt. 2,500 00			1 1,700 00	2 2,416 67						6,616 67
Economics and Sociology	{ No. 5 Amt. 10,950 00			2 3,200 00	1 1,300 00						15,450 00
Electrical Engineering	{ No. 2 Amt. 4,500 00				2 2,000 00		1 700 00				7,200 00
Engineering Drawing	{ No. 1 Amt. 3,000 00			1 1,600 00	17 8,100 00				1 300 00		13,000 00
English	{ No. 4 Amt. 10,060 00			5 6,700 00			(1) 13 3,600 00				20,350 00

DEPARTMENTAL SALARIES — INSTRUCTION — Continued

Schedule C-5—Continued

36

College or Department		Professors	Emeritus Professors	Associate Professors	Assistant Professors	Instructors	Assistants	Fellows	Student Assistants	Lecturers	Totals
European History	No. 1			1	1						6,250 00
	Amt. 2,750 00			1,800 00	1,700 00						
Forestry	No. 1					1	1				4,500 00
	Amt. 2,500 00					1,200 00	800 00				
Geology	No. 2				1	1		2			8,350 00
	Amt. 4,850 00				1,500 00	1,300 00		600 00			
German	No. 2				4	1		1			11,600 00
	Amt. 4,750 00				5,550 00	1,000 00		300 00			
Greek and Latin.....	No. 4						2				10,300 00
	Amt. 9,500 00						800 00				
History and Philosophy of Education..	No. 1										3,000 00
	Amt. 3,000 00										
Home Economics	No. 1			1	*1	(1) 3	1				7,340 00
	Amt. 2,000 00			1,600 00	750 00	2,240 00	750 00				
Horticulture	No. 1				2		1				6,650 00
	Amt. 2,750 00				3,300 00		600 00				
Industrial Arts	No. 1			1		3	5				11,280 00
	Amt. 2,200 00			1,600 00		3,755 00	3,725 00				
Law	No. 7				1						18,400 00
	Amt. 16,600 00				1,800 00						
Manual Training	No. 1				1						1,500 00
	Amt. 1,500 00				1,500 00						
Mathematics	No. 4			2	4		1				18,150 00
	Amt. 8,750 00			3,100 00	5,700 00		600 00				
Mechanical Engineering	No. 2			1	1		2		1		9,400 00
	Amt. 4,550 00			1,700 00	1,200 00		1,650 00		300 00		
Mechanics	No. 2								1		4,800 00
	Amt. 4,500 00								300 00		
Metallurgy and Mineralogy.....	No. 1				2						5,600 00
	Amt. 2,200 00				3,400 00						
Meteorology	No. 1										500 00
	Amt. 500 00										
Military Science and Tactics.....	No. 1						1				800 00
	Amt. 450 00						350 00				
Mine Engineering	No. 1				1				13		4,550 00
	Amt. 2,000 00				1,800 00				750 00		

ANNUAL REPORT

Pharmacy	{ No. 2				1			2		
	{ Amt. 4,000 00				1,500 00			700 00		6,200 00
Philosophy	{ No. 2									
	{ Amt. 4,750 00									4,750 00
Physical Education	{ No. 1		1		2			2		
	{ Amt. 2,750 00		1,500 00		2,200 00	700 00		500 00		7,650 00
Physics	{ No. (2) 4			2	2					
	{ Amt. 8,000 00			3,200 00	2,100 00	1,450 00	600 00			15,350 00
Political Science	{ No. (2) 1			1	1					
	{ Amt. 2,000 00			1,400 00	900 00					4,300 00
Principles and Practice of Education...	{ No. 1									
	{ Amt. 1,800 00									1,800 00
Psychology	{ No. (2) 3				1					
	{ Amt. 6,550 00				1,400 00					7,950 00
Romance Languages	{ No. (2) 2		1	1	4					
	{ Amt. 4,550 00		1,800 00	1,400 00	3,900 00					11,650 00
Rural Economics	{ No. 1				1				*1	
	{ Amt. 2,750 00				1,200 00				250 00	4,200 00
School Administration	{ No. 1									
	{ Amt. 3,000 00				1,750 00					4,750 00
Veterinary Medicine	{ No. 4			†3		2				
	{ Amt. 11,250 00			4,250 00		1,500 00				17,000 00
Zoology and Entomology.....	{ No. 2		1	1		1	5	6		
	{ Amt. 4,750 00		1,600 00	1,600 00		700 00	1,500 00	550 00		10,700 00
Totals	{ No. 92	1	15	48	45	38	39	21		
	{ Amt. \$209,950 00	\$1,250 00	\$25,200 00	\$72,200 00	\$50,841 67	\$24,830 00	\$11,160 00	\$4,500 00		\$399,731 67
Summer School	{ No. 18		6	9	13	1				
	{ Amt. 6,865 00		1,560 00	1,962 00	2,420 00	240 00				13,047 00
Winter Course in Agriculture.....	{ No. 3					3			13	
	{ Amt. 500 00					500 00			505 00	1,005 00
Totals	{ No. 18		6	9	13	4			13	
	{ Amt. \$6,865 00		\$1,560 00	\$1,962 00	\$2,420 00	\$740 00			\$505 00	\$14,052 00

† One part time.

‡ Two part time.

* Part time.

² Absent on leave 1912-1913.

BALANCE
(FOR THE END
June 30,

1. CURRENT ASSETS

Cash in banks and on hand for current expenses,		
<i>Schedule E</i>	\$9,166 14	
Accounts receivable, <i>Schedule F</i>	453 00	
Auditor of State—Special appropriations, <i>Schedule M</i>	478,989 52	
Store Room (Supplies per inventory).....	55,554 00	
Total current assets.....		\$544,162 66

2. INVESTMENT ASSETS, AT END OF YEAR

Securities—State Treasurer (Irreducible debt of State)		
<i>Schedule G</i>	\$972,230 35	
Total investment assets.....		\$972,230 35

3. EDUCATIONAL PLANT—LANDS, BUILDINGS AND EQUIPMENT

Balance at beginning of year, <i>Schedule J</i>	\$4,490,019 04	
Additions during year, <i>Schedule H</i>	213,262 46	
Total Educational Plant.....		\$4,703,281 50
Total Assets		\$6,219,674 51

Schedule D

SHEET
OF THE YEAR)
1913.

1. CURRENT LIABILITIES

Special State Appropriations, <i>Schedule M</i>	\$478,989 52	
Other current liabilities.....		
Total current liabilities.....		\$478,989 52

2. ENDOWMENT FUNDS, ETC., AT END OF YEAR.

Endowment Capital Accounts—

Funds for general purposes, invested, <i>Schedule K</i>	\$903,370 99	
Funds for designated purposes, invested, <i>Schedule L</i>	68,859 36	
Total liabilities, endowment funds.....		\$972,230 35

3. EDUCATIONAL PLANT, DEBT AND CAPITAL ACCOUNT

Bonds, or mortgages against plant, <i>Schedule I</i>		
Investment or capital account.....	\$4,768,454 64	
Total Educational Plant.....		\$4,768,454 64
Total Liabilities.....		\$6,219,674 51

SECURITIES, BONDS, STOCKS AND REAL ESTATE MORTGAGES

Description.	Balance at Beginning of Year	Purchase or Other Additions during Year	Total	Sales during Year	Balance at End of Year	Interest Received	Added to Investments during Year
INVESTMENTS:							
Sec. 4105-15-R, S.....							
Irreducible debt of State	\$950,337 00	\$20,143 35	\$970,480 35		\$970,480 35	\$57,626 92	\$775 27
Totals	\$950,337 00	\$20,143 35	\$970,480 35		\$970,480 35	\$57,626 92	\$775 27
Total Schedule D.....					\$970,480 35		

Schedule H

ADDITIONS TO LANDS, BUILDINGS AND EQUIPMENT

ADDITION TO LANDS:	Amount
(Details, Schedule J).....	
Sewers	
Railway to Grounds.....	\$7,172 15
Grading, Planting, Roads, Walks, etc.....	4,985 65
ADDITIONS TO BUILDINGS:	
(Details, Schedule J).....	123,879 17
EQUIPMENT:	
(Details, Schedule J).....	77,225 49
Total during year.....	\$213,262 46

Schedule I

BONDS, CERTIFICATES OF INDEBTEDNESS AND MORTGAGES
AGAINST EDUCATIONAL PLANT.

Description	Balance at beginning of year.	Issued during year.	Total.	Redeemed during year.	Balance at end of year.
BONDS:					
Issue of 12-1-03, due 12-1-12— Nos. 181 to 210, \$1,000.00 each 4½%	\$30,000 00		\$30,000 00	\$30,000 00	
Total	\$30,000 00		\$30,000 00	\$30,000 00	
Total Bonded Debt at end of year, Schedule D.					

EDUCATIONAL PLANT: LANDS, BUILDINGS AND EQUIPMENT

Account.	Balance at Beginning of Year—Cost.	Expended During Year —Cost.	Gifts and Additions During Year—Value.	Total.	Sales and Other Dis- positions During Year—Cost.	Balance at End of Year—Cost.
University Site, Campus, Grounds, Etc.:						
331 11-100 acres, purchased 1871, cost..... \$117,508 00						
12 14-100 acres, purchased 1879, cost..... 607 00						
93 59-100 acres, purchased 1906, cost..... 39,139 11						
14 acres, purchased 1911, cost..... 7,500 00						
450 84-100 acres, cost \$164,754 11						
Appraised value, 1900, (\$1,500,000.00).....	\$1,547,500 00			\$1,547,500 00		\$1,547,500 00
GRADING, PLANTING, ROADS, WALKS, ETC.....	43,014 35	\$4,985 65		48,000 00		48,000 00
SEWERS	17,681 00			17,681 00		17,681 00
RAILWAY	38,930 01	7,172 15		46,102 16		46,102 16
BUILDINGS:						
Store Room and Receiving Department.....		1,935 12		1,935 12		1,935 12
Botany and Zoology.....		7,931 23		7,931 23		7,931 23
University Hall	139,625 00			139,625 00		139,625 00
Dormitory, Small (Boys).....	5,000 00			5,000 00		5,000 00
Repair Shops	10,000 00			10,000 00		10,000 00
Botanical Building	15,000 00			15,000 00		15,000 00

Horticultural Building	7,500 00		7,500 00	7,500 00
English Recitation Building.....	6,500 00		6,500 00	6,500 00
Tool Shed*	1,000 00		1,000 00	1,000 00
Hayes Hall	55,000 00		55,000 00	55,000 00
Residences (Five)	27,000 00		27,000 00	27,000 00
Farm Buildings (Five).....	5,000 00		5,000 00	5,000 00
Orton Hall	100,000 00		100,000 00	100,000 00
Townshend Hall	110,000 00		110,000 00	110,000 00
Armory and Gymnasium.....	115,000 00		115,000 00	115,000 00
Biological Building	55,000 00		55,000 00	55,000 00
Emerson McMillen Observatory.....	16,000 00		16,000 00	16,000 00
Boiler House	41,121 47	6,815 70	47,937 17	47,937 17
Power House	24,290 02		24,290 02	24,290 02
Brown Hall	75,000 00		75,000 00	75,000 00
Page Hall (Law).....	100,000 00		100,000 00	100,000 00
Veterinary Laboratory	35,000 00		35,000 00	35,000 00
Physics Building	80,000 00		80,000 00	80,000 00
Chemistry Building	110,367 00		110,367 00	110,367 00
Mines Building	85,000 00		85,000 00	85,000 00
Engineering Laboratory	75,000 00		75,000 00	75,000 00
Horse Building	25,000 00		25,000 00	25,000 00
Cattle Building	35,000 00		35,000 00	35,000 00
Judging Pavilion	20,000 00		20,000 00	20,000 00
Oxley Hall (Girls' Dormitory).....	66,490 85		66,490 85	66,490 85
Veterinary Clinic Building.....	87,780 06		87,780 06	87,780 06
Students' Building (Club House).....	78,243 50		78,243 50	78,243 50
Lake Laboratory	2,500 00		2,500 00	2,500 00
Library Building	195,918 42	94,619 31	290,537 73	290,537 73
Poultry Building	2,507 51	2,692 00	5,199 51	5,199 51
Storage Building	114 19	9,885 81	10,000 00	10,000 00
Total Buildings	\$1,806,958 02	\$123,879 17	\$1,930,837 19	\$1,930,837 19
Total Lands, Buildings, etc.....	\$3,454,083 38	\$136,036 97	\$3,590,120 35	\$3,590,120 35

* Part of old Farm Mechanics Laboratory.

EDUCATIONAL PLANT: LANDS, BUILDINGS AND EQUIPMENT—Continued

Schedule L—Continued

44

Account.	Balance at Beginning of Year—Cost.	Expended During Year — Cost.	Gifts and Additions During Year—Value.	Total.	Sales and Other Dis- positions During Year—Cost.	Balance at End of Year—Cost.
EQUIPMENT: DEPARTMENTS—						
Agricultural Chemistry	7,841 85	58 00	196 06	8,095 91	238 55	7,857 36
Agronomy	5,239 57	1,724 48	64 23	7,028 28	54 00	6,974 28
American History	533 33	27 50	71 00	631 83	70 50	561 33
Anatomy and Physiology.....	7,224 90	20 00	11 70	7,256 60	5 00	7,251 60
Animal Husbandry	22,653 65	2,273 77	1,786 82	26,714 24		26,714 24
Architecture	7,011 27	130 40	231 45	7,373 12	149 38	7,223 74
Art	1,443 39	196 55	15 35	1,655 29	40	1,654 89
Astronomy	17,626 90	134 34		17,761 24	174 07	17,587 17
Bacteriology	5,252 62	671 19		5,923 81		5,923 81
Botany	11,164 28	808 75	4 00	11,977 03		11,977 03
Ceramic Engineering	13,267 38	70 58	200 68	13,538 64		13,538 64
Chemistry	11,917 40	417 10	64 57	12,399 07	4 20	12,394 87
Civil Engineering	14,998 87	408 00	652 35	16,059 22	193 73	15,865 49
Dairying	11,291 22	1,464 52		12,755 74	362 76	12,392 98
Economics and Sociology.....	524 42	14 50		538 92	2 00	536 92
Electrical Engineering	31,945 59	3,123 34	8 68	35,077 61	10 00	35,067 61
Engineering Drawing	7,005 03	76 36		7,081 39		7,081 39
English	622 08	156 25		778 33		778 33
European History	642 73			642 73		642 73
Forestry	1,202 77	125 48		1,328 25		1,328 25
Geology	25,601 02	506 91		26,107 93		26,107 93
German	419 71	6 75		426 46		426 46
Greek	428 83	12 00		440 83		440 83
History and Philosophy of Education.....	225 25	21 00		246 25		246 25

ANNUAL REPORT

Home Economics	3,103 10	320 16	666 62	4,089 88	296 96	3,792 92
Horticulture	1,878 73	207 43	9 00	2,095 16	204 32	1,890 84
Industrial Arts	25,453 62	411 17		25,864 79	312 23	25,552 56
Latin	476 83	23 15		499 98		499 98
Law	4,848 15	65		4,848 80		4,848 80
Manual Training	190 54	55 15	18 00	263 69	8 91	254 78
Mathematics	270 96			270 96		270 96
Mechanical Engineering	61,263 09	2,408 95	2,437 70	66,109 74	652 32	65,457 42
Mechanics	716 48	1 75		718 23	97	717 26
Metallurgy and Mineralogy	10,794 38	469 18	662 96	11,926 52	255 19	11,671 33
Military Science and Tactics	2,247 59	226 57		2,474 16		2,474 16
Mine Engineering	9,478 87	90 70		9,569 57		9,569 57
Pharmacy	3,042 23	234 59		3,276 82		3,276 82
Philosophy	117 10	7 75		124 85		124 85
Physical Education	6,107 76	932 26		7,040 02		7,040 02
Physics	34,917 06	184 42	10 00	35,111 48		35,111 48
Political Science	182 43			182 43		182 43
Poultry	672 01	395 59		1,067 60		1,067 60
Principles and Practice of Education	38 75			38 75		38 75
Psychology	1,685 56	16 01		1,701 57		1,701 57
Romance Languages	315 40	20 00	12 00	347 40		347 40
Rural Economics	8,046 27	2,779 58	90	10,826 75	528 31	10,298 44
School Administration	270 88	48 06		318 94	17 31	301 63
Veterinary Medicine	17,269 93	2,069 16	469 39	19,808 48	583 19	19,225 29
Zoology and Entomology	22,257 79	300 25	25 00	22,583 04		22,583 04
Library	305,679 62	25,617 44		331,297 06		331,297 06
Summer School	285 66	35 00		320 66	65	320 01
Archæology	6,498 00			6,498 00		6,498 00
Agricultural Extension	5,407 26	1,120 66	853 75	7,381 67	435 53	6,946 14
Dean of Women		248 10		248 10		248 10
University Architect		211 34		211 34		211 34
General Offices, Recitation Rooms and Laboratories	23,352 73	2,644 32	164 35	26,161 40	192 87	25,968 53
Store Room	27,783 62	1,922 59	310 97	30,017 18		30,017 18
Heat, Power and Light Plant	232,828 59	22,858 85	6,232 46	261,919 90	12,421 30	249,498 60
Roads and Grounds	1,839 04	491 11		2,330 15		2,330 15
Dormitories—Oxley Hall	10,298 89	420 44		10,719 33		10,719 33
Small Dormitory (Men)	232 68			232 68		232 68
Total Equipment	\$1,035,935 66	\$79,220 15	\$15,179 99	\$1,130,335 80	\$17,174 65	\$1,113,161 15
Grand Total, Lands, Buildings and Equipment, Schedule D	\$4,490,019 04	\$215,257 12	\$15,179 99	\$4,720,456 15	\$17,174 65	\$4,703,281 50

ENDOWMENT FUNDS FOR GENERAL PURPOSES

Name and Description of Funds	Total Principal and Additions Received to Beginning of Year	Received during Year		Total	Income Expended during Year	Total Principal and Additions at End of Year
		Gifts and Other Additions	Income (from State)			
Original Endowment	\$524,176 50		\$31,450 59	\$555,627 09	\$31,450 59	\$524,176 50
Land Grant. Act of Congress July 2, 1862. Total amount derived from sale of 629,920 acres of land, scrip, \$342,450.80. Accumulation added (state) \$181,725.70.						
Virginia Military Lands.....	150,000 57	11,762 58	9,404 49	171,167 64	9,404 49	161,763 15
Ceded to State by an Act of Congress Feb. 18, 1871. Act of General Assembly March 26, 1872, accepted said grant and conveyed the lands to the Trustees of the Ohio Agricultural and Mechanical College for the benefit of that institution. Subsequent acts, April 3, 1873, and March 14, 1889.						
Henry Folsom Page.....	209,608 84	7,822 50	12,735 10	230,166 44	12,735 10	217,431 34
A bequest left by him Oct. 27, 1891, and ratified by his wife and daughter, the entire estate to be disposed of and proceeds paid to State Treasurer in accordance with Sec. 4105-15 R. S., the disposition of income to be left entirely to the discretion of the Board of Trustees.						
Totals	\$883,785 91	\$19,585 08	\$53,590 18	\$956,961 17	\$53,590 18	\$903,370 99
Funds expended on teaching, etc., such as charged in expense account					\$53,590 18	
Total endowment fund for general purposes at end of year (irreducible debt of state) Schedule D.....						\$903,370 99

Schedule L

ENDOWMENT FUNDS FOR DESIGNATED PURPOSES

Name and Description of Funds	Total Principal and Additions Received to Beginning of Year	Received during Year		Total	Income Expended during Year	Total Principal and Additions at End of Year
		Gifts and Other Additions	(from Income State)			
<p>William J. Bryan Prize Fund</p> <p>This fund of \$250.00 was given by Mr. Bryan, July 20, 1898, and invested in accordance with Sec. 4105-15 R. S., the income to be used as a prize for the best essay on "The Principles Which Underlie Our Form of Government." In any year when no prize is awarded, the income shall be added to the principal. Sec. 4105-47 R. S.</p>	\$537 23		\$32 71	\$569 94		\$569 94
<p>Stillman W. Robinson Fellowship Fund</p> <p>Established January 28, 1903, by a gift of \$5,000.00 from Prof. Robinson, and invested in accordance with Sec. 4105-15 R. S. An additional gift of \$1850.00 was received July 20, 1909, and likewise invested, the income to be used in maintaining a Fellowship in the Engineering College.</p>	8,873 15		540 37	9,413 52		9,413 52
<p>C. Newton Brown Scholarship Fund</p> <p>This fund was created May 18, 1903, by the payment of \$1,000.00 received from former students of Prof. Brown and invested in accordance with Sec. 4105-15 R. S. An additional amount of \$92.09 was received December 1, 1904, and likewise invested. The income to be invested in accordance with Sec. 4105-47 R. S. until the principal is sufficient to maintain a scholarship in the department of Civil Engineering.</p>	1,858 42		113 17	1,971 59		1,971 59
<p>J. McLain Smith Scholarship Fund</p> <p>A bequest left by him September 27, 1905, the entire estate to be sold and proceeds paid to State Treasurer in accordance with Sec. 4105-15 R. S. The income to be used by the Board of Trustees in assisting worthy young men and young women in attaining an education.</p>	25,228 51	218 00	1,519 13	26,965 67	1,519 16	25,446 51

Schedule L—Continued

ENDOWMENT FUNDS FOR DESIGNATED PURPOSES—Continued

Name and Description of Funds	Total Principal and Additions Received to Beginning of Year	Received during Year		* Total	Income Expended during Year	Total Principal and Additions at End of Year
		Gifts and Other Additions	Income (from State)			
Joseph H. Outhwaite Library Fund September 28, 1908, a gift of \$2,000.00 was received from Mrs. Outhwaite in memory of the late Dean Outhwaite and invested in accordance with Sec. 4105-15 R. S., the income to be used for the purchase of books relating to the Civil War.	2,000 00		120 00	2,120 00	120 00	2,000 00
Derby Scholarship Fund.... This fund was established November 23, 1908, by a gift of \$500.00 from Prof. Samuel C. Derby and invested in accordance with Sec. 4105-15 R. S., the income to be added to the principal in accordance with Sec. 4105-47 R. S. until the annual income shall be at least \$300.00. The said income to be used in maintaining the Derby Scholarship.	996 96	500 00	85 57	1,582 53		1,582 53
Frederick C. Clark, Library Fund Established November 23, 1908, by a gift of \$2,000.00 from Mrs. Clark in memory of the late Prof. F. C. Clark and invested in accordance with Sec. 4105-15 R. S., the income to be used for the purchase of books in the field of Economics.	2,000 00		120 00	2,120 00	120 00	2,000 00
Robert P. Scott Student Aid Fund Established by a gift of \$25,000.00 from Robert P. Scott, January 2, 1909, and invested in accordance with Sec. 4105-15 R. S., the income to be used in assisting worthy and needy students.	25,000 00	65 00	1,502 31	26,567 31	1,502 31	25,065 00

ENDOWMENT FUNDS FOR DESIGNATED PURPOSES—Continued

Name and Description of Funds.	Total Principal and Additions Received to Beginning of Year.	Received during Year		Total	Income Expended during Year	Total Principal and Additions at End of Year
		Gifts and Other Additions	Income (from State)			
Siebert Library of German History		750 00		750 00		750 00
A bequest left by William Siebert, March 23, 1898, consisting of his library on German History and Science. This library has been added to by books purchased from gifts of his brothers, Louis and John Siebert. June 6, 1913, by Board action, \$750.00 of the Siebert fund was transferred from the Ohio State University Treasury to the State Treasury to be invested in accordance with Sec. 4106-15 R. S., the income to be used for the purchase of books on German history.						
Class of 1886, Sword Fund.. Gift, January 1, 1911.	56 82		3 45	60 27		60 27
Totals	\$66,551 09	\$1,533 00	\$4,036 74	\$72,120 83	\$3,261 47	\$68,859 36
Total funds for designated purposes at end of year (irreducible debt of state), Schedule D						\$68,859 36

STATE AID—SPECIAL APPROPRIATION

Title or Description	Balance at Beginning of Year	Appropriated During Year	Total	Requisitions During Year	Cancelled	Balance at End of Year
Additional Farm Lands and Improvements	\$12,500 00		\$12,500 00			\$12,500 00
Agricultural Extension and Mechanical Arts	43,556 96	35,000 00	78,556 96	43,556 96		35,000 00
Animal Husbandry Emergency	86 11		86 11	84 50	1 61	
Bonds and Interest	31,350 00		31,350 00	31,350 00		
Botany Emergency	30 00		30 00	30 00		
Botany and Zoology Building	50,000 00	75,000 00	125,000 00	7,870 75		117,129 25
Brown Hall Emergency	345 97		345 97	217 35	128 62	
Chairs Emergency	96 15		96 15	91 46	4 69	
Chemistry Emergency	298 58		298 58	265 20	33 38	
Coal and Gas		25,000 00	25,000 00			25,000 00
Coal Handling Plant	714 77		714 77	714 77		
College of Agriculture—Apparatus and Equipment		10,000 00	10,000 00			10,000 00
College of Arts—Apparatus and Equipment		825 00	825 00			825 00
College of Engineering—Apparatus and Equipment		7,000 00	7,000 00			7,000 00
College of Veterinary Medicine—Apparatus and Equipment		5,000 00	5,000 00			5,000 00
Economics and Sociology Emergency	26 00		26 00	26 00		
Engineering Drawing Emergency	100 00		100 00	100 00		
Emergency		25,679 00	25,679 00	25,679 00		
Equipment Agronomy Dept.	2,159 60		2,159 60	1,370 67		788 93
Equipment Dairy Dept.	3,077 85		3,077 85	1,520 37		1,557 48
Equipment Electrical Eng. Lab.	6,957 75		6,957 75	4,822 93		2,134 82
Equipment Mechanical Eng. Lab.	5,372 70		5,372 70	2,392 32		2,980 38
Equipment New Library Bldg.	50,000 00	10,000 00	60,000 00	49,221 16		10,778 84
Equipment Power House	7,000 00	15,000 00	22,000 00	6,645 66		15,354 34
Equipment University Farm	3,327 66		3,327 66	1,443 14		1,884 52
Extension Hot Water Heating System	19,831 00	16,475 00	36,306 00	19,831 00		16,475 00
Extension Tunnel to Archaeological Museum		7,800 00	7,800 00			7,800 00
Extension Tunnel to Library Bldg.	634 95		634 95	634 95		
Farm Machinery	294 13		294 13	294 13		
Fire Escapes and Remodeling University Hall	4,381 97		4,381 97	3,456 41		925 56
Fire Protection		2,500 00	2,500 00			2,500 00
General Budget		30,630 00	30,630 00			30,630 00
Horticultural and Forestry Building		75,000 00	75,000 00			75,000 00
Horticulture Lab. Emergency	36 41		36 41	35 30	1 11	
Forward	\$242,142 15	\$340,909 00	\$583,087 56	\$201,654 03	\$169 41	\$381,264 12

Schedule M—Continued

STATE AID—SPECIAL APPROPRIATION—Continued

Title or Description	Balance at Beginning of Year	Appropriated During Year	Total	Requisitions During Year	Cancelled	Balance at End of Year
Brought forward	\$242,142 15	\$340,909 00	\$583,057 56	\$201,654 03	\$169 41	\$381,264 12
Incinerators		1,000 00	1,000 00			1,000 00
Industrial Arts—Emergency ..	290 00		290 00	85 00	205 00	
Labor on Farm (Due to flood) ..		300 00				300 00
Library—Books	21,335 57	15,000 00	36,335 57	22,045 38		14,290 19
Library Building	60,541 00		60,541 00	60,431 46		109 54
Live Stock and Maintenance..	4,146 47		4,146 47	4,146 47		
Motor Truck		2,500 00	2,500 00			2,500 00
New Roads		1,000 00	1,000 00			1,000 00
New Roof on Gymnasium.....		2,000 00	2,000 00			2,000 00
Official Milk Testing		2,000 00	2,000 00			2,000 00
Poultry Bldg. and Equipment ..	4,931 57		4,931 57	4,931 57		
Railway to Grounds.....	7,007 01		7,007 01	4,340 73		2,666 28
Remodeling Orton Hall.....		2,000 00	2,000 00			2,000 00
Remodeling Page Hall.....		4,000 00	4,000 00			4,000 00
Repairs and Betterment of Buildings and Grounds.....	29,621 98	27,500 00	57,121 98	31,343 02		25,778 96
Repairs to Railway (due to flood)		6,160 00	6,160 00			6,160 00
Scientific Apparatus, Laboratory Equipment	7,490 79		7,490 79	4,983 38		2,507 41
Sidewalks	5,000 00	2,000 00	7,000 00	5,000 00		2,000 00
Storage Building	10,000 00		10,000 00	10,000 00		
Store Room and Receiving Department Building		11,000 00	11,000 00	1,696 70		9,303 30
Summer Session	5,000 00	10,000 00	15,000 00	5,000 00		10,000 00
Townshend Hall Roof, Emergency	590 75		590 75	495 25	95 40	
Veterinary Clinic Building and Equipment	5,961 31		5,961 31	3,851 59		2,109 72
Water Rates		7,000 00	7,000 00			7,000 00
Winter Course in Highway Engineering		1,000 00	1,000 00			1,000 00
Zoology and Entomology—Emergency	221 00		221 00	221 00		
Total	\$404,316 01	\$435,369 00	\$839,685 01	\$360,225 68	\$469 81	\$478,989 52

OXLEY HALL

RECEIPTS AND DISBURSEMENTS—SUPPLEMENTAL.

RECEIPTS—

Balance July 1, 1912.....		\$5,546 41
For Rooms	4,314 00	
For Board	13,083 92	
For Guests.....	334 55	
For Meals to Rooms.....	1 80	
For Laundry	579 84	
For Miscellaneous	192 68	
	<hr/>	
Total receipts		18,506 79
		<hr/>
Total receipts and balance.....		\$24,053 20

DISBURSEMENTS—

Salary, Superintendent	\$1,600 00	
Salary, Secretary	667 50	
Employees and Extra Labor.....	3,428 26	
Stationery and Office Supplies.....	20 25	
Incidentals	135 46	
Food Supplies	7,021 20	
Material and General Supplies.....	747 07	
Freight and Cartage.....	4 32	
Repairs—Furniture and Fixtures.....	42 05	
Furniture and Fixtures.....	420 44	
Water, Gas and Electricity (General accounts).....	974 84	
	<hr/>	
Total Expenditures		15,161 39
		<hr/>
Balance June 30, 1913.....		\$8,891 81

REPORT OF THE DEAN OF THE GRADUATE SCHOOL.

To the President of the Ohio State University.

MY DEAR SIR:—As Dean of the Graduate School I have the honor to submit the following report for the academic year ending June, 1913.

THE SESSION OF 1912-1913

The number of students registered in the Graduate School during the regular session of 1912-1913 was 127, an increase of approximately 30% over the number registered during the preceding session. The attendance during the summer session was 95. Since the summer session is now conducted under exactly the same conditions as is the work of the first and second semesters, there is no reason why the students of this session should not be listed in our catalogue along with the students of the other sessions. There were also registered in the undergraduate colleges a number of students who held baccalaureate degrees, but who were refused registration in the Graduate School, either because their undergraduate work was not acceptable or because they were not pursuing work distinctly graduate in character.

The distribution of the students present in the regular session, according to the departments in which the major and minor were taken, is as follows:

<i>Depts. of Instruction.</i>	<i>Major.</i>	<i>Minor.</i>	<i>Depts. of Instruction.</i>	<i>Major.</i>	<i>Minor.</i>
Agricultural Chemistry	6	6	Hist. and Phil. of Edu-		
Agronomy	2	....	cation	6	1
American History.....	3	2	Horticulture .....	....	1
Animal Husbandry.....	3	....	Latin	7	4
Architecture	1	....	Mathematics	2	3
Bacteriology	3	4	Metallurgy and Miner-		
Botany	4	6	alogy	3	2
Chemistry	20	7	Philosophy	2	2
Economics and Sociol-			Physics	4	3
ogy	8	5	Political Science .....	....	1
English	20	5	Psychology	1	3
European History.....	2	3	Romance Languages &		
Geology	3	....	Lit.	4	4
German	10	5	Rural Economics	3	....
Greek .....	....	2	School Administration.	....	2
			Zoology & Entomology	11	2

The following table gives the distribution of the graduate students according to the Colleges and Universities from which they received their academic degrees:

Berea College	1	Cornell University	1
Brown University	1	Denison University	4
Capital University	1	Franklin & Marshall College.....	1
Colorado Agr'l College.....	1	Grove City College.....	1

Heidelberg University	1	Rio Grande College.....	1
Indiana University	1	Syracuse University	1
Kansas State Agr'l College.....	3	University of Cincinnati.....	2
Marietta College	2	University of Illinois.....	1
Massachusetts Agr'l College.....	1	University of Missouri..	2
Miami University	2	University of Wisconsin.....	2
Oberlin College	1	University of Wooster.....	3
Ohio Northern University.....	1	Wabash College	2
Ohio State University.....	81	Washington University	1
Ohio University	2	Wesleyan University	1
Ohio Wesleyan University.....	4	Williams College	1
Otterbein University	3	Wittenberg College	2
Purdue University	1		

THE SUMMER SESSION

In my report for the session 1911-1912 attention was called to the great importance of increasing the number of graduate courses offered in the summer session. The experience of the last summer session has abundantly justified the general conclusion that more attention should be given to graduate work. Of the 674 students in attendance, 175 held baccalaureate degrees. Moreover, there are no students in attendance during the session more earnest in their work or more appreciative of the opportunities offered them than are those young men and women who having completed the regular college course, are ambitious to continue their studies and make themselves more efficient in their work and of greater service to the state. In accordance with the action of the faculty, in the selection of courses to be offered in the summer session, preference is to be given to those courses that are adapted to advanced undergraduates and graduates. An examination of the bulletin of the summer session leads one to doubt if in all cases this action has really been followed. Not infrequently students come to the University to specialize in some one subject, only to find that the amount of graduate work offered in that subject is insufficient to occupy more than a relatively small fraction of their time. The budget of the summer session makes it possible to offer only a limited number of courses. It would seem to be the part of wisdom, therefore, not to duplicate to any great extent the courses that are offered in the summer schools of a number of other colleges in the state, but to concentrate our efforts upon those courses for the study of which the University possesses special advantages.

CONDITIONS UNDER WHICH A SENIOR MAY TAKE WORK COUNTING TOWARDS A GRADUATE DEGREE

The regulations that at present obtain in the College of Arts, Philosophy and Science make it possible for an efficient student to complete the course required for the baccalaureate degree in less than four years. Not infrequently a student at the beginning of his senior year finds that

but a small fraction of his time is required to complete his undergraduate work and it is quite natural that such a student should wish to select additional courses which will count towards a graduate degree. In order to meet such cases the Graduate Council has passed the following regulation:

"That the secretary of the Graduate Council be instructed to inform the secretary of each college faculty that it is not the policy of the Graduate Council to count work done by an undergraduate student toward an advanced degree unless this work is blocked out, approved by the committee in charge, and filed with the Dean of the Graduate School before it is begun."

It is believed that this will render justice to the student and at the same time safeguard the character of the work which may be counted towards a graduate degree.

THE DEGREES OF M. A. AND PH. D.

In the great majority of the Universities of the first rank, the requirements for the master's degree at present necessitate that the student should prove his ability, at least to a limited extent, to carry on independent research work. Moreover, the requirement for the doctor's degree, upon which the greatest stress is laid, is the ability of the student to carry on research work of a high character. Since many of the candidates for the master's degree, and to a limited extent, those also who are candidates for the doctor's degree are preparing themselves for teaching in our secondary schools, some educators are beginning to inquire whether such students are spending their time to the best advantage in the University, in trying to develop this spirit of research. It is pointed out that manifestly such students will never become investigators and it is suggested that a better preparation for their work would consist in developing in their graduate course a broad scholarship rather than a spirit of investigation, in a restricted field. Some universities have already made certain changes in accordance with this general view. Thus, Yale University has recently made a requirement of two years of residence for the M. A. degree and has changed the conditions of the degree so that it stands not so much for the development of a spirit of research as it does for the acquisition of a broad scholarship. Rutgers has made similar requirements for the master's degree. In all the discussions, however, it is to be noted that there is uniform agreement to the effect that the degree of Ph. D. must stand in the future as it has in the past for ability to investigate and discover. If some course is to be offered having the same residence requirement as that for the degree of Ph. D., but seeking to develop broad scholarship rather than the spirit of research, then, this course must lead to some degree other than that of Ph. D.

The above facts are simply stated here in order to call attention to these discussions. The whole subject is one of sufficient importance to warrant our deepest interest.

THE DEVELOPMENT OF THE GRADUATE SCHOOL

In order that the Graduate School may develop, it is essential that the University be equipped with the necessary apparatus and adequate library facilities. In the enthusiasm of our demands for these requisites there is a danger of our losing sight of the fact that the primary factor in the development of a Graduate School is, after all, not the costly supplies of apparatus but a faculty of men endowed with broad scholarship and imbued with a spirit of investigation. President Vincent has voiced the general views of our leading educators when he said that "a true University can exist only where a group of investigators in the chief departments of Arts and Sciences are at work on the frontiers of knowledge." While such men may be greatly handicapped by lack of the requisite facilities, yet they will find it possible to contribute something to our store of knowledge. The Professor who is always excusing his lack of investigation upon the grounds that the necessary supplies are not at hand is almost sure to find some other excuse when the supplies are provided.

SCHOLARSHIPS AND FELLOWSHIPS

Protests are not infrequently heard against the establishment of scholarships and fellowships, on the general ground that by so doing we are subsidizing our graduate work; that only such Universities should offer graduate work that can attract students through the renown of the members of their faculties. It is not my purpose at this time to enter into a discussion of this question. It is sufficient to point out the fact that the establishment of fellowships and scholarships is universal among all our graduate schools. A committee of the Graduate Council has made an exhaustive study of this subject and as a result presented a report which after thorough discussion was adopted by the Graduate Council. In this report the Council places itself on record as being in favor of a system of scholarships and fellowships. Scholarships should be worth \$250.00 each and should be open to students holding the baccalaureate degree. The Fellowships, on the other hand, more limited in number, should pay an amount sufficient to meet the entire expenses of a student during his academic year, say \$500.00 and should be open only to students who have at least a master's degree or its equivalent. It is believed that this system will result in a keen competition for the fellowships and make it possible to select for these positions students of the highest promise. The state cannot spend a limited amount of money more wisely than to offer such men the opportunity of continuing their investigation uninterruptedly.

THE GRADUATE SCHOOL AND THE STATE

The fact that Ohio has up to the present time not provided adequate opportunities for advanced work commensurate with the dignity of the state is brought out very forcibly by Professor Cattell in his studies upon

the Scientific Men of America. Professor Cattell has spent many years of study upon this general subject and speaks with authority. In his study of the statistics of the leading one thousand men of Science he shows the undisputed fact that Ohio has lost more than half the scientific men she has produced. It is a safe assertion that the same statement would hold in reference to the men prominent in fields of learning other than those of science. In considering the distribution of the one thousand most eminent men of science it is shown that 75 of this number were born in Ohio. Only Massachusetts and New York have produced a larger number. We may well be proud of this record. The lamentable fact, however, is that, of this number but thirty-four are now residents of Ohio. The conclusion is inevitable and I will state it in the words of Professor Cattell: *"Ohio has lost more than half the scientific men it has produced. It has lost two-thirds of its better men and one-third of its more mediocre men. The state has not provided for its scientific men and has provided less adequately for the better men than for those who are not so good."* It is not pleasant for us to acknowledge that Ohio has been derelict in providing for the higher education of her citizens. Nevertheless I am sure we must all agree that it is not the part of wisdom to shut our eyes to the conclusions reached by Professor Cattell nor, if acknowledging them, to try to excuse the state of affairs they reveal, but rather to boldly face the task of remedying the conditions which have resulted in the loss to Ohio of such a large number of her most eminent scientists. Ohio has a number of colleges where thorough undergraduate training is given. Is she not entitled to at least one institution that will take its place among the best graduate schools of our country? The Ohio State University is making a good start in this direction. The development of her graduate school must of necessity be slow. It is entitled all the more therefore to the hearty support of the authorities of the University and of the State.

In conclusion I wish to express my hearty appreciation, to you, Mr. President, as well as to the members of the Graduate Council, for your co-operation in all the work which has been undertaken in order to advance the interests of the Graduate School. Especially do I wish to acknowledge my indebtedness to Professors Osborn and Kuhn. The former faithfully performed the duties of Dean in my absence during the second semester, while the latter has not only been an efficient secretary but also has attended to all the arduous duties connected with the registration of the students present in the Summer Session.

Respectfully submitted,

WILLIAM MCPHERSON,
Dean of the Graduate School.

REPORT OF THE DEAN OF THE COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE.

COLUMBUS, OHIO, July 1, 1913.

The President of the Ohio State University, Columbus, Ohio:

DEAR SIR:—I have the honor to submit herewith my report as Dean of the College of Arts, Philosophy, and Science, for the year ending June 30, 1913.

ENROLLMENT

The College enrolled 484 men and 370 women. The increase over the previous year was 25. The College has now recovered the apparent loss in numbers resulting from the separate organization of the Graduate School two years ago. The March flood resulted in numerous unavoidable withdrawals from College in the second semester, though everything possible was done to obviate this necessity. The work of the three weeks when conditions were at the worst was either repeated or not examined on; and the mid semester reports were not acted on.

LEAVES OF ABSENCE

There were absent on leave for the year Professor H. R. Spencer of the Department of Political Science, Professor C. A. Bruce of the Department of Romance Languages and Literatures, Assistant Professor C. S. Duncan of the Department of English, and (for the first semester only) Assistant Professor May Thomas of the Department of German.

NEW APPOINTMENTS

There were no new appointments to the rank of Instructor or higher grades. Six fellows were added to the Department of English and one fellow to the Department of Geology. In this connection I beg to repeat my previous recommendation in regard to a permanent professorship of music.

PREMEDICAL COURSES

In response to a request from the Ohio Association of Medical Teachers, the faculty has adopted and published the following regulation:

Students preparing for the study of medicine are permitted to select their work for the first two years from the following subjects; English, Modern Language, History, Psychology, Mathematics, Physics, Chemistry, and Zoology. Such students should make known to the Executive Committee their intentions, immediately upon admission to the University.

As is well known, medical colleges of the first class require as a condition of admission a degree in Arts or Science or its equivalent; those of the second rank require two years of preliminary college training, certain sciences and a foreign language being named as fixed requirements; those of third grade require the minimum of one year's

college work permitted by the American Medical Association, with certain studies specified. The regulation quoted above is designed to assist students to meet the requirements of medical colleges of the second and third grades. The studies named are those specified by the medical colleges. The executive committee will prescribe from the list of studies enumerated those which, with the previous work of the student, will fulfil the requirement of the medical colleges.

COMBINATION COURSES

For several years we have had an Arts-Law course and an Arts-Education course by following which the student might save one year in earning the two degrees. In my last report I noted the fact that an Arts-Engineering course had also been adopted with a curriculum of six years. During the past year at the request of the Faculty of the College of Agriculture two further courses of this kind have been adopted, one in Arts-Agriculture, and one in Arts-Home Economics. It is believed that these combination courses will serve a useful purpose by providing a unified and self-consistent curriculum for ambitious students who desire a broader preparation for their life work and can afford to devote five or six years to obtaining it. The privilege of these courses will be extended only to students who maintain a uniformly good standard of scholarship.

MARKING SYSTEM

The Faculty of Arts, Philosophy, and Science has proposed to the University Faculty a revision of the marking system, the chief objects being as follows:

1. To secure closer scrutiny of student work by increasing the number of grades.
2. To eliminate the grade "condition" and thus give to each student a final standing in each course at the end of each semester.
3. To encourage greater uniformity of standards by making known to each teacher his deviation from the average at the close of each semester.

The objections to the proposed revision are mainly directed against the elimination of the "condition". In practice, however, the "condition" does not often result in a systematic re-study of the subject matter; and if the deficiency is serious, failure must follow the effort to continue the work. The proposed system does away with the "condition examination;" but of course leaves to each faculty the duty of determining how many low grades shall be counted towards a degree. In some institutions only one "D" may be thus counted in any semester. In others a certain number of grades above the normal "C" must be attained. Incidentally, it may be remarked that the proposed system is in use in most of the higher institutions of this country, including those from which we

receive students on advanced standing. Its adoption would, therefore, facilitate the work of the Entrance Board. It would also provide a more nearly scientific basis for a system of honors and for election to the honor societies. Its chief recommendation, however, is that it would tend to compel a juster because more careful judgment of each student's work.

THE COLLEGE AND HIGH SCHOOLS OF COMMERCE.

A committee of this College is engaged in investigating the courses of the Commercial High Schools with a view to opening a way for their graduates into the higher work offered in this College. We find that, as our requirements for admission now stand, the chief deficiency of such graduates is in the foreign languages, and the usual amount is two units. Since the College itself provides elementary instruction in all of the languages, an easy adjustment seems feasible without serious interference with existing requirements for admission and graduation. The enactment of a rule providing that *by the end of the Sophomore year in college*, a total of six years foreign language must have been completed *in high school or college or both*, would meet the needs of most of the graduates of the commercial high schools, and of some others. Without yielding the fifteen-unit requirement for admission, and without imposing specific conditions, but conceding two admission units of substitutions in commercial subjects, the way would be open. It is believed that certain modifications of the courses in commercial high schools could also be secured by conference, resulting in a better adjustment of the high school and college work in commercial subjects. The total necessary concession on the part of the University would be the postponement to college years of two of the four units of required foreign language. The only high school graduates to whom the University does not as yet open the way to continued education are the commercial graduates and yet the University provides higher courses in commerce that should appeal particularly to this very class of graduates. We hope to make this connection during the coming year.

SPECIAL LECTURES

A course of five special lectures was given during the year by members of the faculty. The purpose was to acquaint the student body in a general way with the scope, aims, and methods of several important departments and especially to extend the information to students in fields outside of their chosen studies. The lectures were well attended. Advanced students rather than lower classmen were observed to be in the majority. The success of the course encouraged the officers of the College to plan for a similar course the coming year. The course given was as follows :

January 17. *How to Study*, by Mr. George R. Twiss. An account of the principles that underlie effective study, and the methods of applying them in the formation of efficient study habits.

February 21. *The Value of a Knowledge of Physics and Chemistry in Everyday Life*, by Professor W. E. Henderson. The aim of the lecture will be to show the necessity of an elementary knowledge of these sciences as a part of every general education and the advantage of the discipline of laboratory science as training in logical thinking.

March 7. *The Ideals and Subject Matter of Biology*, by Professor F. L. Landacre. The use of biological material for practical and cultural ends, and the relation of such knowledge to other Arts College subjects.

April 18. *The Benefits of Language Study*, by Professor M. B. Evans. A statement of the aims back of language study which render it indispensable in any broad, well balanced system of education, and make it of very great practical, disciplinary and cultural value.

April 25. *The Value of Historical Studies*, by Professor G. W. Knight. A simple presentation of what history is, of its vital connection with other subjects in a college course, and of its importance to life and citizenship; with a brief discussion of why, how, and by whom it should be studied.

Several special departmental lectures open to the public were also given during the year, notably in connection with the meeting of the College Journalists in the month of May.

COLLEGE SPIRIT

It is a matter of congratulation that the spirit of the college is increasingly satisfactory. There is substantial unanimity on matters of college policy; no radical changes in the curriculum or the organization of the work have been called for, and the group-elective system which has been in operation for ten years seems to have justified itself in the minds of the faculty and students.

Respectfully submitted,

JOSEPH VILLIERS DENNEY, *Dean*.

REPORT OF THE DEAN OF THE COLLEGE OF EDUCATION.

DR. W. O. THOMPSON, *President, Ohio State University.*

DEAR SIR:—We have completed the sixth year of our existence as a College of Education with considerable encouragement and with a growing strength. There is an increasing appreciation of the opportunity for service in a more careful study of the processes, methods and purposes of public education. Gradually we seem to be creating a professional atmosphere in the business of teaching. Our students have seemed unusually zealous in the pursuit of their studies and the scholastic attainments of those who received degrees at the commencement of this year have been remarked upon by several of our departments.

Previous to this year, the college had granted degrees to ninety persons. Of this number twenty-seven were men and sixty-three were women. Of the men, thirteen have been employed as superintendents of schools, seven as high school principals, six as high school teachers and one in business. Of the women, fifty-two have been teaching and eleven have been married. This year twenty-nine degrees were granted, six to men and twenty-three to women. All these people will be recommended for the work of teaching.

The registration for six years has been as follows:

1907-08	26
1908-09	46
1909-10	53
1910-11	74
1911-12	109
1912-13	137

These figures indicate that the college is rapidly finding a place in the educational demands of the state.

The work of the college can not be measured, however, by its registration. The atmosphere which it creates among students of other colleges on the campus who are expecting to teach is one of the gratifying evidences of its service. More and more other students are seeking direction in their reading and study from the professional departments of this college. This is especially true with students in the College of Arts and some students in the College of Agriculture.

The college has carried on an extension course on Saturday through the year with twenty-five teachers in the city of Zanesville. The courses offered were in the History of Education and in the Principles of Education. The professor in charge, Dr. T. S. Lowden, expressed great satisfaction with the work of the students. The students also expressed their appreciation of the benefits from these courses in a resolution which was unanimously adopted and forwarded to the Dean of the College.

Several of our professors have spent strength and time in lecturing before local teachers' institutes trying to arouse new vigor and energy among teachers, helping to plan work and spreading an acquaintance with books which contain the latest and best thoughts on public school work.

The tremendous amount of material now being printed and the vast amount of information that is being collected in statistical and theoretical form offer very great opportunity to those of us who are teaching teachers in the organization and selection of materials for our courses. Especially do we see an opportunity through the summer school to help to promote the growth and knowledge of the great array of teachers who will come to us in increasing numbers.

The college has enjoyed and profited by the co-operation it could give to the Ohio State School Survey. Among our students are always to be found a number of persons who have had public school experience. When a call was made in the spring for some of these ex-teachers acquainted with country school methods to go into the field and assist in the survey, about thirty responded. The work in the field meant some sacrifice of work in the recitation. But it is thought that the gain in the experience of public school inspection fully justified the loss in daily lessons. No students attempted to give more than ten days to the survey.

Some slight changes have been made in the required curriculum of the college. Mathematics will not be required except in cases where that branch of work is elected as the content for the student's teaching. A course in educational psychology will be required of all students who become candidates for a degree.

It would seem likely that we are approaching the time when our entrance requirement in foreign language might be waived for those students who are preparing to teach manual training. The fact that many of our manual training high schools do not require foreign language for graduation leaves many high school students without credentials for higher work. Surely this barrier should be broken down in some way.

For a very harmonious and happy year in the college, I desire to express my gratitude. There has been the most cordial and willing support given by the entire faculty to every effort to advance the interests of the college. We can not hope to make much greater progress until we secure a new building and are given a little more prominent and distinctive place in the life of the University.

For your wise counsel and constant encouragement, I wish to express no uncertain appreciation.

Very respectfully,

W. W. BOYD,
Dean of College of Education.

REPORT OF THE DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

COLUMBUS, OHIO, June 14th, 1913.

President W. O. THOMPSON, Ohio State University.

SIR:—I have the honor to submit to you the following report of the Department of Military Science and Tactics for the year 1912-1913.

Our year began with an attendance of 1,325, and ended with an attendance of 1,075. Students in the department are now divided into fourteen companies and the band, and constitutes a regiment of four battalions, two of which consist of four companies each, and two of which three companies each. The first battalion of four companies is composed entirely of sophomores, and the fourth battalion of three companies drills in the morning at 11:00 A. M. Monday, Wednesday and Friday instead of 4:00 P. M. Monday, Tuesday and Wednesday as do the rest of the battalions. The band has averaged between sixty and sixty-five members during the entire year. During the year we received 300 additional rifles and equipment from the War Department, 60,000 rounds of gallery ammunition, and about 75,000 paper targets for use in gallery work.

The regiment has now increased so in size that it is manifestly impossible for the Commandant of Cadets to give much personal instruction to so large a body of men, and I am compelled to rely almost entirely upon student officers, not only for teaching but also for general statements of military matters, which should be given by persons having actual experience in army matters. The sections in theoretical instruction are now so numerous that by visiting (for purpose of supervision) three during the military hour, it requires about sixteen days to get around. It is entirely impossible to attempt to lecture on military matters to the entire regiment and to divide the regiment into classes of proper size for lecture. It means at least four military hours for the delivering of one lecture. Again in the matter of gallery work where we attempt to give to each student a working knowledge of his rifle (that is the use of sights, the use of windgauge, and to develop fairly ability to hit what he is shooting at) the numbers are so great, and hours in which we have the use of the gallery so few, that I am unable to do the work that has been done heretofore.

A moment's reflection will show the impossibility of giving proper supervision, when the companies are drilling on the field, to the various classes of work being conducted, namely; company drill, ceremonies, battalion drill, and extended order, all of which must be carried on at the same time.

In view of the above facts, and this is but a small number of those which could be enumerated, I request the cooperation of the Trustees and

yourself in obtaining from the War Department an assistant in this department.

During the year the regiment took part in the inaugural of Governor James Cox, and performed their duties as usual in a very creditable manner. About 1,200 students took part in the ceremonies. Later during the disaster which overtook West Columbus, about 450 students took part in the preservation of order, along with the Ohio National Guard. They were on duty in twenty-four hour tours and endured the usual hardships that are incident to a soldier's duty. In addition to their military duties, they also assisted for many days in all classes of work that was necessary in restoring West Columbus to a livable condition. I again do highly commend their action in these distressing circumstances, and feel that by their generous aid to those unfortunate people they have brought renown to this University and have justified its existence in the minds of all thinking people.

In view of this efficiency I urge that some attention be given to a plan, whereby the corps of cadets of this institution may be made available as a source of supply for officers of the Ohio National Guard. There are many advantages that could accrue to this University from both the State and the United States without consuming additional time of the student, or holding him to any other requirement than the present, and at the same time it would strengthen the Military Department of this University decidedly.

In the detail of work during the year there are one or two things which need correction. It is not unusual for some of the secretaries of colleges to strike the requirement of drill off the student's card without authority. This results in the confusion of our records, and entails much labor on the department in a search for the missing man. Under the rules it is the province of the Military and Gymnasium Board to grant excuse from drill. I also find a few weeks before examinations that a small number of students absent themselves from drill without authority. Some who are without intention of returning to the University the ensuing year, violate the rules intentionally knowing that official action in their case consumes time, and that under the rules the record of failure in their military work is the only punishment. Some method of quick punishment should be devised to reach these men and compel their attendance at drill, so long as they remain in the University.

In concluding, I wish to call your attention to this rapidly growing department to emphasize the necessity for a drill hall, wherein can be housed properly the arms and equipment now stored in different buildings. Twenty-five minutes of the military hour, during the fall and spring, is now consumed in taking and replacing equipment, be-

cause of the crowded condition of this building. Within a year or two there will be over 1,500 cadets in the Military Department.

To handle such numbers of men in the present building will be nearly an impossibility. The present Gymnasium will not accomodate now the numbers who are each year being graduated from the University, and a drill hall will supply that need, and many others while taking that of the Military Department and Athletics. I earnestly ask your serious consideration of this need.

Thanking you, Mr. President, for the support you have given me during the year, and which has enabled me to make this department efficient, I am

Very truly yours,

GEO. L. CONVERSE.

REPORT OF THE DEPARTMENT OF PHYSICAL EDUCATION.

MEN.

1912-1913.

Any system of education which does not safe-guard and enhance the health of the student, is, to say the least, incomplete.

The mere assembling of thousands of students in class-rooms and laboratories, and keeping them there for four or five hours a day, for two hundred days in the year, introduces into their lives a wholly artificial but necessary element. Healthy lives are, normally, continually active, and this restriction of natural movement is not to be allowed without a careful consideration of possible ill effects. It is a well known fact that a large part of the sickness, general ill health, and inefficiency is preventable.

Fully ninety per cent. of the students who enter this University have had little or no training in the common laws of health and personal hygiene. It is, therefore, the aim of this department to furnish the correct amount of judicious physical exercise, and teach those laws of personal hygiene which will maintain and increase the health, strength, and efficiency of the student.

The year just closed has been, for the great mass of students, the most successful one this department has had since the writer has been connected with the University. The physically undeveloped ones who needed judicious guidance in the laws of health, rational exercise, rest and recreation, received proper instruction, while the physically fit athlete was well cared for by the department of Athletics.

NUMBER OF STUDENTS.

Number of Male Students enrolled in this Department.

First Semester, 861.		Second Semester, 731.	
	<i>Per-centage.</i>		<i>Per-centage.</i>
Male students passed.....	78	Passed	73½
Male students merited.....	6½	Merited	4½
Male students failed.....	4½	Failed	11½
Male students conditioned.....	11	Conditioned	10½

Number of students excused during the year, with reasons.

Self support	20		
Advance credits	18	Conditions removed	55
Age limit	26		
Physical disability	27	Total	146

Gymnasium Classes.

Number of Gymnasium classes for men held each week, 29.

Lectures.

Number of lectures to men on Personal Hygiene:

First semester, 11 weeks, 22 each week.

Second semester, Personal Hygiene and First Aid, 5 weeks, 3 each week.

Gymnasium Open Nights.

During the indoor season, all the privileges of the department are kept open night and day, to accommodate the students. One of the instructors is always on hand and janitor service is arranged for until 9:30 P. M.

At all times we aim to teach and encourage those types of physical exercise and recreation which the student is most likely to indulge in after college years.

PHYSICAL EXAMINATION

Number of examinations made the first semester.....	758
Number re-examined at the close of the year.....	620

Heart and Lungs.

The added equipment for detecting lesions of the heart and lungs, and the increased amount of time taken for the work, enabled us to make these examinations more thorough and accurate. Eight per cent of the hearts examined were abnormal enough to require some special exercise, or to excuse the student from the more violent work for some part of the school year.

Sixteen per cent had some weakness or bad hereditary tendencies of the lungs. To offset this, the final examination this Spring showed that:

- 83% gained in weight.
- 84% gained in chest circumference.
- 88% gained in lung capacity.
- 82% gained in physical strength.

Eyes.

One of the most gratifying results of our examination was the detection of defective vision in 139 students; the great majority of these men did not know that their headaches, nervousness, and general inefficiency were due to eye-strain. About 50% of these men are now wearing properly adjusted glasses.

Ears.

Five per cent had defective hearing, or some trouble with the ears.

Nose and Throat.

Nineteen and a half per cent had some catarrhal condition of the nose.

Fifteen per cent suffered from some weakness or catarrhal condition of the throat.

Special care was taken to impress these students with the correct hygienic measures and home medical treatment of these parts.

Teeth.

Fifteen per cent were found poor.

Seventeen per cent in fair condition.

Sixty-eight per cent in good condition.

Special lectures were given on early and constant care of the teeth.

Skin.

Three per cent had some skin disease, mostly due to digestive disturbances, or lack of proper personal hygiene.

Nutrition.

Five per cent poor.
Thirty-three per cent fair.
Sixty-two per cent good.

Muscular Development.

Fifteen per cent poor.
Sixty-six per cent fair.
Nineteen per cent good.

The final examination demonstrated that eighty-five per cent. of the students were benefited in some physical or mental way.

This percentage is somewhat lower than the last couple of years, due no doubt to the hardships endured by the students during the recent floods.

PERSONAL HYGIENE SECTION

For the first time this year all first year students were required to attend one lecture a week on Personal Hygiene during eleven weeks of the first semester. The following topics were presented:

Hygiene of the Respiratory Tract.

Nose, throat, bronchi, lungs. Influenza, bronchitis, pneumonia, tuberculosis, etc.

Hygiene of the Digestive Tract.

Teeth, stomach, bowels, etc. Food values, indigestion, constipation, auto-intoxication, etc.

Hygiene of the Skin.

All forms of bathing.

Hygiene of the organs of reproduction.

Venereal diseases, etc.

General Personal Hygiene.

Sleep and rest. Clothing. Ventilation, etc., etc.

Two written examinations were held at the close of the course; 761 men took the first examination; 94% received a passing grade; 78 students took the second examination, 98% passed.

From the replies to the personal questions answered in these written tests relative to the physical condition and personal habits of the students at the opening of the school year, the following interesting data were obtained:

41% caught cold easily.
94% said their rooms were well ventilated.
32% complained of having trouble with their eyes.
66% use gas for lighting purposes.
17% said these lights were not properly placed for studying.
34% had electric lights.
7% said these lights were not properly located.

Bathing.

- 48% bathe twice a week.
 23% three times a week.
 22% once a week.
 5% four times a week.
 A few take daily baths.

Sleep.

- 40% average 7 hours sleep per night.
 39% average 8 hours sleep per night.
 10% average 6 hours sleep per night.
 8% average 9 hours sleep per night.
 2% average 5 hours sleep per night.
 1% average 10 hours sleep per night.

EMERGENCY SECTION

The *Emergency Section*, which was established by the department several years ago, has become an absolute necessity to the student-body. Eight hundred and fifty-one visits were made to this office, and advice, or emergency treatment was given, and when necessary, students were sent to other physicians. The summary which follows shows the important place it occupies in University life on the campus:

INFECTIOUS DISEASES.

Typhoid fever	1
Septicaemia	6
Diphtheria	1
Broncho-pneumonia	2
Influenza (la grippe).....	35
Tuberculosis, pulmonary	6
Mumps	7
Measles	1
Rheumatic fever	1
Acute tonsilitis	29
Ptomaine poisoning	2

DISEASES OF DIGESTIVE SYSTEM.

Acute pharyngitis	32
Acute gastritis	16
Catarrhal enteritis	3
Appendicitis	3
Constipation	20

DISEASES OF THE LIVER.

Jaundice	1
Torpid liver	16

DISEASES OF THE NOSE AND LARYNX.

Coryza	59
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Chronic nasal catarrh.....	14
Acute laryngitis	5

DISEASES OF THE RESPIRATORY TRACT.

Epiataxis	2
Acute bronchitis	39
Chronic bronchitis	4
Acute pleurisy	8

DISEASES OF THE KIDNEYS.

Acute Bright's disease.....	2
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DISEASES OF THE DUCTLESS GLANDS.

Thyroiditis	1
Goitre	3

DISEASES OF THE NERVOUS SYSTEM.

Neuritis	2
Neuralgia	7
Lumbago	6
Sciatica	1
Tortocollis	2
Epilepsy	3
Migraine	10

DISEASES OF THE SKIN.

Eczema	10
Acne	7

Herpes zoster	1	DISLOCATIONS—	
Urticaria	5	Knee	1
Ringworm	17	Forearm	2
Miscellaneous	7		
Venereal diseases	14	Contused, incised, and lacerated	
Oorchitis	5	wounds, sprains, and minor in-	
Cystitis	2	juries	101
Hemorrhagia and fistula.....	2	Burns	17
Foreign particles removed from the		Abcesses, ulcers and felons.....	21
eye	24	Concussion of brain.....	4
Conjunctivitis, and other eye dis-		Finger amputated	1
eases	17	Vaccination, and after effects.....	113
		Miscellaneous	57
FRACTURES.			
Nose	2	Total cases	821
Clavicle	2		
Ankle	1		
Wrist	2		

So important is the work of this section that its efficiency should be increased as much as possible. The service could be made more convenient, effective and safer, if the office were partitioned off, and a small space reserved for private consultation and aseptic emergency work.

SWIMMING

Ability to swim is one of the requirements of this department. Every first year student is required to sign up with the swimming instructor and demonstrate his ability in this line. 880 men enrolled, 643 passed the examination, 187 *students were taught to swim this year*; 35 failed; 15 were conditioned.

The small size of the swimming pool (20x30 feet) and the large number of students using it daily makes it imperative that the strictest hygienic supervision be maintained. The pool is emptied and washed out daily. Three times a week it is thoroughly scrubbed. This is the poorest part of our equipment. We should have a pool four times the size of the present one.

To prevent accident and infection we should employ an instructor who can give his entire time to this work. At present we have one student assistant, giving half time.

SOME SUGGESTIONS FOR IMPROVEMENTS AND BETTER ADMINISTRATION.

The water closets and urinals should be taken out of the bath and locker room and put all together in a separate room.

There is an urgent need for a larger swimming pool, both on the men's and women's side of this building.

Better facilities for aseptic first aid work is greatly needed.

If the office were partitioned off and painted white it would assist materially in this work.

Wooden racks should be made for the shower baths, and in front of the lockers, to protect the feet from the cold cement floor.

Pad-locks should be owned by the University and rented to the student when he pays for his locker. This would safeguard the student's property and greatly increase the efficiency of our locker system.

COOPERATION WITH THE DEPARTMENT OF ATHLETICS.

INDOORS.

Use of the Main Floor of the Gymnasium by Athletes.

During the indoor season—December to April—the use of the main floor of the gymnasium is turned over to the Department of Athletics daily, immediately after the close of the classwork, as follows:

Monday, 4 to 5:30 P. M.

Tuesday, 4 to 7 P. M.

Wednesday, 4 to 9 P. M.

Thursday, 4 to 6 P. M.

Friday, 5 to 9 P. M.

Saturday, all afternoon and evening.

Athletes are also privileged to use the running-track between the regular gymnasium classes, during the afternoons, daily, from a quarter of to a quarter after the hour.

This schedule allows the Department of Athletics and the male students of the Department of Physical Education an equal amount of time on the main floor of the gymnasium.

The enlarging of the basket ball court this year, and the placing of it in the center of the main floor was quite a concession to the Department of Athletics. It occupies so much space that very little other work can be done with satisfaction when the court is in use.

One set of indoor athletics tests (not announced in our last report) made in this Department, uncovered some valuable athletic material, and a list of these men was sent to the Department of Athletics, along with a list of twenty of the strongest men in the freshman class.

OUTDOORS.

Students encouraged to indulge in outdoor athletics.

As soon as the weather became favorable for outdoor exercise, this Department encouraged physically fit men to elect outdoor athletics, under the supervision of the Department of Athletics, with the following result:

70 men reported for Track.
66 men reported for Foot Ball.
40 men reported for Tennis.
36 men reported for Base Ball.
17 men reported for Soccer Foot Ball.

Total 229

Our Gymnasium Instructors, Mr. Bartholomew and Mr. Ohlson, materially aided the Department of Athletics by helping supervise and coach the soccer foot ball and wrestling teams.

Our effort to develop sturdy athletic material.

In the hope of finding more athletic material and creating athletic interest, a series of "week end" tests of skill and endurance were planned, but had to be abandoned after the second meet. We found the average student too much occupied with college duties and other interests to practice for these events.

On December 12, 1912, the last effort was made to interest the upper-class men. Announcements were made to all gymnasium classes, and notices posted, that the upper and lower gymnasium floors would be thrown open between the active class periods (a quarter of to a quarter after the hour), from 9 A. M., to 4 P. M., daily, and instruction given by this Department to *any* students in the University who desired to participate in athletic games or recreation, but not over a dozen men took advantage of the offer.

Physical Examination of Candidates for Athletic Teams.

The number of candidates examined for places on the various Varsity teams, by the head of this Department, was as follows:

	<i>Accepted.</i>	<i>Rejected.</i>
Foot Ball	119	9
Basket Ball	18	2
Track	105	6
Base Ball	51	1
Cross Country	7	2
Totals	305	20

The report on the work in the women's section of this Department follows and is made a part of this report.

June 6th 1913.

H. SHINDLE WINGERT.

DEPARTMENT OF PHYSICAL EDUCATION.

WOMEN

Data of interest resulting from the physical examinations of students in the women's section of the Department of Physical Education.

Total number examined.....	443
Number having organic heart lesions.....	6=1.1%
Number having some functional heart trouble.....	31=6.9%
Number having defective vision, eyestrain, astigmatism, etc.....	115=35.9%
Of these many were associated with other symptoms, headache, nervousness, etc., and 73 had had their eyes examined, and treated, or corrected by glasses, while the others were urged to do so.	
Number reporting frequent affections of the nose and throat.....	93=20.9%
This group represents those who "catch cold easily," to whom a close overheated room is a menace, and in whom a catarrhal condition of some part of the upper respiratory tract is chronic. A definite hygienic regime was prescribed for these students, to render them more resistive to unfavorable influences.	
Number reporting affections of the chest, or lower respiratory tract	15=3.3%
Members of this group suffer from cough,—“Always have a ‘hard cold on the lungs’ in the winter.” Have defective expansion, and in some cases a history of unhygienic home conditions, tuberculosis in the family, etc.	
Number showing enlarged cervical glands, or hypertrophied tonsils	30=6.7%
Many of these have other definite symptoms which make it possible to group them under a system of hygienic procedure, resulting in improvement. Removal of tonsils has been reported from 5, with improvement of conditions.	
Number showing enlargement of the thyroid gland.....	139=31.37%
A large number of the girls show this glandular enlargement, which is common among women in many parts of the state; and while apparently physiological in some cases, is, in many, associated with nervous manifestations, rapid heart, etc., making a definite indication for special care of the girls. Many of those who “break down,” are among this group.	
Number showing curvature of the spine.....	56=12.6%
Of varying degrees, from a slight curve traced to years of piano practice sitting with one knee crossed over the other to the severe cases due to accidents.	
Number having persistent headache.....	100=22.5%
This group of girls have headaches frequently. Many are associated with ocular defects. The triad of symptoms, eyestrain, headache, and constipation are frequently found; 13 reported headaches following their hours spent in the chemical laboratory; the combination of long standing and odors seeming to be the cause. In the majority of cases a definite cause or group of contributing causes could be found and a hygienic outline for their removal given.	

Number subject to chronic constipation.....	113=25.5%
Number reporting improvement of constipated condition 8 months after entering college.....	34=7.8%

In these cases the regular habits, regulation of diet, etc., have been beneficial. Especially have I noticed the excellent effect of the regulation of hours imposed on those living at Oxley Hall. Many come from homes where there is laxity in these respects, and many a girl with unstable digestion, headaches, constipation, etc., has been immensely benefited by her residence at the dormitory.

Number having decidedly painful menstrual periods.....	99=22%
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In all of these cases it would be far better if the student could remain away from college the first day of her menstrual period. At that time she is suffering; her nervous condition is anything but stable, and if she could but stay quietly at home without worry as to recitations, she would not only accomplish her year's work better in the end, but she would leave college with more healthy organs, and a more well-balanced mind.

It is my belief that it would be wise, both from the point of view of the professor and the physician, to excuse girls for one day's absence each month; to have it granted without the embarrassment of asking for it—perhaps by the turning of a special slip on returning to class.

Number who easily become unduly fatigued, describing themselves as being exhausted at the end of a day's recitation.....	34=7.8%
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Number who are liable to faint, in the classroom, under excitement, etc.	24=5.4%
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Number who systematically take long walks, who go out-of-doors and walk one or more squares before retiring, who tramp about the country winter and summer, etc.....	34=7.8%
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There has been an average gain in chest expansion of .8 inch during the year. Last fall the average chest expansion of first year girls was 2.1 inches. This spring it is 2.9 inches, due, I hope, largely to the exercises in deep breathing and regular exercise, which they have taken.

The average lung capacity of first year students as measured by the spirometer last October was 160 c. c.; this spring, is 177 c. c., an increase of 17 c. c.

The average lung capacity of the sophomore class last October was 164 c. c.; this spring, is 178.3 c. c., a gain of 15.3 c. c.

When physical examinations reveal conditions which need watching, the student is sent for from time to time and interviewed; also students are told at the time of the physical examination to report any time that they feel the need of doing so in regard to physical condition. They respond well, and come freely to ask for advice, treatment, etc. Minor ailments are cared for; such injuries as burns, sprains, etc., and conditions needing minor surgical attention, such as boils, ulcers, etc., are lanced, dressed, bandaged, etc.

A few appliances are badly needed to facilitate this work of which so much is done, and which is so important. A small instrument sterilizer,

a glass and enamel case for gauze, dressings, instruments, etc., a small glass-topped table, a couple of enameled basins for solutions, etc. At present I have no conveniences and work at a disadvantage, being unable to do many things for the young ladies that I could do with the proper accompaniments.

DEVELOPMENT OF THE RECREATIVE PHASE OF PHYSICAL TRAINING

Each year there is a great demand among the young women students for recreation of the sort which may be obtained in a gymnasium. The girls want to have basketball teams; they want to climb ropes; to run races; to play ball; to dance; and in general to amuse themselves in physical ways. They show a desire to laugh aloud, to call to each other, and indulge many such natural desires, which conventionalities deny them. They come to the gymnasium in the afternoon, when through their classes, and express their longing to get into their "gym" suits, and go up onto the floor and play.

As the building is closed to the women students during the afternoon hours, we began, the second semester of this year, opening it from 7 to 9 Monday and Thursday evenings to the girls. The response was immediate. An average of 83 attended until in March when flood conditions necessitated the discontinuance of the privilege. Basket ball teams were formed,— Freshman, Sophomore and Junior. Quiet, timid girls began to skip about and swing on the rings. A general spirit of hilarity prevailed, and the girls seemed to thoroughly enjoy themselves. Later in the spring, through the cooperation of the Athletic Association, a corner of the athletic field was reserved for the girls, and out-of-door games were played with great enjoyment.

Plans are now made to start all classes out-of-doors next fall; to encourage students to sign up for their favorite sports, and to arrange hours when practice may be had. If good weather prevails, the little athletic field will prove a source of great pleasure to the girls, and will be a step toward a Girls' Athletic Field, which we hope will one day be a reality. We are a long way behind many institutions in providing facilities for the girls' activities, but, even with the overcrowded building, we shall be able to make some advance now that we can arrange for some out of door work.

Also a class in Folk Dancing will be held through courtesy of the Dean of Women, at Orton Hall, Wednesday afternoons, open to all women students, which will be an outlet for their exuberant spirits.

The organization of classes for sports will necessitate another student assistant to teach the games, stay out on the field during practice, etc., and we hope that we can retain Miss Marsh for this work, and to continue teaching swimming during the winter months.

Alice Littlejohn Goetz.

REPORT OF THE LAKE LABORATORY.

LAKE LABORATORY, CEDAR POINT, OHIO, July 12, 1913.

President W. O. THOMPSON, Ohio State University, Columbus, Ohio.

DEAR MR. PRESIDENT:—I am pleased to submit a brief account of the work at the Lake Laboratory for the summer session of 1913, and to say that the work of the session has been very satisfactory. The attendance has been larger than usual and the distribution from institutions in grade of work quite as satisfactory as in the previous year. The institutions represented are, aside from the Ohio State University, Miami, Ohio Wesleyan, Oberlin, Buchtel, Cincinnati University, Texas A. and M. College, Catholic University of America (Washington D. C.), Iowa Wesleyan, Earlham College, and Muskingum.

Thirteen of the number are graduate students, and institutions from which these are graduated are Ohio State University, Cincinnati University, Colorado College of Agriculture, Iowa State College and Heidelberg College. Of the thirty-one enrolled thirteen are teachers in various grades of work, one grade school, seven high school, one in a university, and four in college work. It appears from this that the Laboratory is serving its intended purpose in assisting teachers for advanced instruction in biological lines and especially in the carrying on of graduate study.

Quite a number of those present are engaged on research problems and a considerable number of contributions will be made to our knowledge of the plants and animals of the locality. A part of this work is being done by the members of the instructional staff but a considerable part in connection with the studies of advanced and graduate students.

The members of the instructional staff have been very enthusiastic and devoted in the work of the session and the association of teachers from the different institutions of the state has been, as usual, one very pleasant feature of the summer's work. The colleges represented on the staff this year were Buchtel, Baldwin, Miami and Wittenberg outside of the State University.

Owing to the number enrolled it has been necessary for a number to live in Sandusky and it is very evident that additional living room at the Laboratory would be fully occupied. It appears to me, however, that it may be desirable to provide for some of the more elementary work, and other courses that are better provided for at the University, in the summer school in Columbus and that the work at the Lake Laboratory be restricted a little more definitely to such advanced and graduate courses as can be handled to particular advantage under the field conditions possible at the Laboratory. This will doubtless involve a considerably larger total enrollment and permit the taking of biological studies with other

branches that are offered in the summer school at Columbus and at the same time give better facilities for those who desire to do only biological work of an advanced character at the Lake Laboratory. I should be pleased to have this matter carefully considered in the plans for the summer work for the next year.

With regard to the improvements for the coming year it appears to me that it would be best to use the available building fund in a small structure, as well equipped as possible for the comfort of those who occupy it, and let it be used mainly for living purposes, leaving as much of the present building as possible open for Laboratory purposes. It will be necessary to add to the present gas plant, if we continue to use gas for heat, and it will be desirable to repair the water system, putting in a new pump and some kind of power for pumping. This had probably better be connected also with an improved sewerage system, the details for this improvement being planned by the University Architect. A system for lighting for the buildings would be very desirable, if we can obtain one which is not likely to be seriously injured during the winter time. Either an acetylene or a gasoline lighting system could be installed with moderate expense, or a connection with the electric current of the Resort Company might be preferable, but there is considerable danger that any of these may be dismantled by intruders during the time the buildings are not in use.

It might add to the security of the buildings if wooden or metal shutters were placed over the windows as a protection from the breaking of glass, and this possibly might in some degree reduce the damage to the property from persons entering the buildings during the winter time.

The old building should be repainted by another summer, as it is now five years since last painting, and a few repairs will be necessary.

A walk made of hollow brick or of cement from laboratory to roadway now building would be a great convenience but, as this would have to extend outside of our lease-hold, permission from the Resort Company will be necessary.

The dock must be repaired or rebuilt and I would suggest that an estimate of cost for small dock built of concrete casing and sand filling be considered.

Respectfully submitted,

HERBERT OSBORN.

REPORT OF THE DEAN OF WOMEN.

President WILLIAM O. THOMPSON, Ohio State University,

MY DEAR PRESIDENT THOMPSON:—I have the honor of presenting to you herewith my first report as Dean of Women of Ohio State University for the year 1912-1913.

My first duty at the opening of the year was that of housing the out-of-town women students in the available houses, these being Oxley Hall with its two annexes, the two sorority houses and the outside boarding houses. Oxley Hall and its competent management need no word of praise from me. I would lay stress upon Miss McKinley's creation of a home atmosphere when an institutional tone is so difficult to avoid. The two sorority houses have been moderately successful. The Delta Delta Delta house has been abandoned because it demands the initiation of more out-of-town girls than the fraternity is willing to stand for. Alpha Phi has had difficulty in its domestic arrangements. I am glad to say that they make a new start next year with Miss Maud Hathaway of the Domestic Science Department as its social head.

The list of satisfactory boarding houses is very small. The chief objections are (1) the fact that board can seldom be secured with the room, thus forcing our women to the public cafeterias and restaurants for food; (2) that heretofore the women have roomed in houses where there were men, leading in some cases to undue familiarity; (3) many of these houses—and in fact the student herself—regard the student as an outside, individual unit to whom the landlady has no definite responsibility nor obligation. Thus the houses establish no standard of conduct, of social efficiency nor of moral power. The students go when and where they please without explanation and in some cases they stay out all night and leave the gas burning without any feeling of conscience about notifying the lady in charge. It must be said for the houses that prices are very low so that the rental of rooms simply transforms labor into a hard means of livelihood.

I have attempted two things: (1) the organization of the student government with the promulgation of their own rules prohibiting the rooming of women in houses where there are men and the closing of houses to guests at 10:30 in the evening. I believe the first rule will be strictly enforced next year and that a constantly growing public sentiment will support the second. (2) I have endeavored to bring the landlady and the University into closer affiliation. A meeting of landladies was held in Oxley Hall which was addressed by Miss McKinley, Mr. Mann and the Dean with a general discussion of problems and customs followed by a social hour enjoyed by all. The Dean has devoted much time this summer to visiting houses and has a list differentiated as list

I, II, III and IV which she trusts will diminish the difficulties for the new students this Autumn.

Yet the only solution of the housing problem lies in University dormitories to which end I would commend the transformation of Dr. Denny's house into a dormitory for women to be carried out this summer. Even with our much coveted "Quad" it would be needed and the investment of the \$2,000 be a paying one besides rendering a much-needed protection for our women.

Another feature of our housing problem is the securing of employment for those women desiring to help themselves. Fourteen women have earned their room and board in exchange for work in the home. The number is increasing rapidly and the ingenuity of the Dean is taxed in inventing methods of self-help.

II.

The second duty devolving upon me has been the conservation of the health of the women students. Those who have come under my immediate attention have been affected with extreme forms of nervousness and with tubercular trouble. Each is a menace in this environment where women have to live in such close quarters in the lodging houses. This is a problem the solution of which belongs to my Superior and with whom I shall be glad to take counsel.

I think the health of other women suffer from overwork especially in those departments where they are allowed to carry 18, 19 and 20 hours and especially in the case of those who have too much social dissipation. I am helpless to study this problem since there is no way whereby the names of those absent from classes or withdrawn from college are reported to me. The health of women in relation to a University education is so important that I trust I may have your help in some definite requirement looking toward such personal work.

III.

Another duty devolving upon me has been advice as to courses of study and as to methods of work and of life. Three types of women students may be differentiated: first, those who come to college because it is the next step or because they are not without any well-defined purpose and without the pressure of life urging them onward: second, those who are good students, who have had a share of the social life of their village and home but whose chief and only interest at the University is their academic work: third, the frivolous, the athletic, the social whose avowed purpose is a good time. How to re-enforce the first with a sense of the vital connection between her work and her life, how to make the second type learn that social efficiency is the final test of all education, and how to steady the

third by a great dominating life purpose is one of the pressing problems. To meet it more adequately next year, there will be Tuesday afternoon talks to freshmen with a Vocational Conference, if it may be, where the opportunities for women in modern life may be presented by women who have attained. A state university should prepare her women for a more serious aspect of life than the vague one of her who never expects to make good either to her family, to her community nor to her state. I would beg permission, therefore, to hold such a Vocational Conference this autumn.

IV.

A further duty and pleasure has been the promotion of the religious and idealistic side of student life. I have been enabled to help a little in the Y. W. C. A. and to guide the Women's Council toward a more corporate sense of unity. I desire to break through the individualistic spirit and to create a greater sense of loyalty to the University and sacrifice for the common good. A common social life for the women in Orton Hall would do away in part with the need and desire for sororities and off-campus entertainments. The gift of the Women's Union in Orton Hall is our greatest asset this year. Already the room has demonstrated its usefulness to all kinds of societies, dramatic, musical, social and religious. With this room furnished and equipped for use, we believe that every woman student may be personally reached, known and affiliated into the life of the room. In this way we shall be able to help the student adjust herself more readily to the University and help the University to more intelligently meet the needs of the individual. This room will be of service in the solution of our vexing social situation. If our floor were a good dancing floor, many clubs would come here instead of having off-campus affairs. To this end, I would ask the following things for the room:

1. The walls are being washed. They need another coat of paint *the same color*; the ceiling will have to be entirely done over.
2. The floor either replaced with a hard maple floor or cut down and leveled by a *power* machine and properly prepared for dancing.
3. The open shelves in the kitchen removed and a long, big closet with shelves put in its place so the kitchen utensils and dishes may be kept under lock and key.
4. A steam table in the kitchen (I understand there is an extra one not in use at Oxley Hall).
5. The furniture to be in place when the school year opens.
6. A woman janitor to take proper care of our furniture and to assist in serving, washing dishes, etc.

In closing I would like to thank the President for his sympathy, his intelligent and friendly counsel and above all for his faith in woman and

her intellectual possibilities. Furthermore, the kindness shown in placing the Dean upon those Faculty Committees which pertain to the needs of our women students has been of the greatest value to her. With an offer of help from Mrs. Thompson, the Women's Faculty Club and the Professors for the next year, the Dean feels the prospect is bright for a year of abundant results and more detailed personal work among the women students.

This mingled report and petition, Mr. President, the Dean of Women has the honor to respectfully submit.

Most sincerely,

CAROLINE M. BREYFOGLE,
Dean of Women.

Ohio State University,
June 26, 1913.

REPORT OF DEPARTMENT OF AGRICULTURAL EXTENSION.

June 12th, 1913.

DR. W. O. THOMPSON, *University Hall.*

DEAR PRESIDENT THOMPSON:—Sections 7973 and 7974 of the General Code of Ohio make it mandatory that the College of Agriculture of the Ohio State University extend its teachings to communities remote from the College and that it give instruction and demonstrations in various lines of agriculture at county fairs, institutes, granges, clubs, and other organizations that in its judgment may be useful in extending agricultural knowledge. Correspondence courses and bulletin publications are also permitted. Because the College of Agriculture is an educational institution whose primary function is to give instruction, the work of the Agricultural Extension Department is being carried on through publications, by lectures, demonstrations, or exhibits by some person or persons trained to do the work in accordance with the standard maintained by the institution.

The appropriations for carrying out the provisions of these sections have been as follows:

1909-1910	\$20,000
1910-1911	50,000
1911-1912	40,000
1912-1913	40,000
1913-1914	35,000

FORMAL INSTRUCTION

The most highly organized form of Extension service is to be found in the Agricultural Extension School, in which one week's instruction in agriculture and domestic science is given by three men and two women. We have found that the most favorable period for holding these schools is from the middle of November to the middle of March.

In 1909-1910, the first year under our present organization, *thirty-three* schools were held, *six* of which were conducted prior to the middle of November. During this year there were six full time instructors and five who were hired by the week or month. Heads of departments gave more of their time to instruction during the first year than they have since been able to give on account of the rapid increase in the attendance at the College. Appropriation, \$20,000.

During 1910-1911 *seventy-nine* schools were held, *twelve* prior to the middle of November. The appropriation for this year was two and a half times that for the preceding year. Fifteen full time and ten part time instructors were employed. No instructional service was given by heads of departments.

During 1911-1912 *forty-five* schools were held, all between the middle of November and the middle of March. The number of instructors and schools was in proportion to the appropriation, one-fifth less than that for the preceding year.

During 1912-1913 *forty-eight* schools were held between the middle of November and the middle of March. The number of instructors was the same as for the preceding year.

For 1913-1914 we already have *sixty-nine* applications for Extension Schools. From correspondence we judge that the number will be increased to *seventy-five* by the first of July, at which time the schools for next year will be granted. Because of the decrease of five thousand dollars in the appropriation, the increased demand for other forms of Extension service, and the higher salaries which must be paid to secure or to retain instructors, we shall be able to hold only about *thirty-eight* or *forty* schools.

During the year 1910-1911, when the appropriation was \$50,000, there were *eighty-nine* applications for Extension Schools. Eighty were granted and *seventy-nine* held. Before the succeeding legislature reduced the appropriation to \$40,000, there were *one hundred and twenty-one* applications. On the first of July, only *forty-six* schools were granted because of our inability to take care of more than that number. Some communities were so greatly disappointed in not being granted a school that they did not care to make application for 1912-1913. In that year we had *ninety-three* applications and were able to hold only *forty-eight* schools. Because of repeated disappointments, several communities have hesitated to refile their applications. With a still further decreased appropriation for the coming year, we shall be compelled to disappoint a number of counties. The map accompanying this communication shows that these applications come from counties that represent the horticultural, dairying, and grain farming interests of the state. Heretofore we have furnished a special instructor for each of three agricultural subjects in an Extension School; during the coming year, it will be necessary to reduce this number to two men in each school.

FARMERS' WEEK

In February, 1913, a week's work for farmers, their wives, boys and girls was given. The entire course was offered by members of the Extension force and instructors in the College of Agriculture. We found it possible to bring in only one or two persons from outside the state to give an extra talk. We greatly desire to bring in strong men and women from organizations and institutions outside the state to appear on the program for this week's course the coming year, but we fear that this plan will have to be dispensed with.

AGRICULTURAL TRAINS

Since the special train service costs the department from sixty to seventy-five dollars per day, we shall be unable to accept any requests made by the railroads unless some special provision is made to take care of this important feature of our work. During the past year we have reached 20,000 people through this service.

INFORMAL INSTRUCTION

During the year the department receives requests for instruction in miscellaneous meetings (granges, farmers' lecture courses, independent institutes, teachers' meetings, village and farm women's club meetings, Y. M. C. A. meetings, boys' stock judging meetings, corn shows, commencements, etc.), varying from a single lecture to two or three-day sessions. On account of special train service and demonstration work in the fall and spring, it is difficult to fill the requests for such service. During the past year the department has responded to 357 requests for informal instruction. Most of this work has been done before and after the Extension School season by instructors whom it has been necessary to hire for the full year in order to have their service for the Extension Schools. In 1911-1912 we had 342 requests for instruction in miscellaneous meetings; in 1912-1913, 372 requests. During 1913-1914 we shall have to reduce the number who are employed for the entire year, consequently it will be impossible to take care of as many miscellaneous calls.

DEMONSTRATIONS

Instruction alone is insufficient for the masses. Since most processes are conducted by imitation, either thoughtfully or thoughtlessly, demonstration work is really more important as a feature of Extension service than it is sometimes considered, since for instruction, unless it is closely associated with demonstration, falls short of accomplishing its purpose for many persons. In the schools in which domestic science subjects are discussed, there is a decided advantage in that the cooking, baking, etc., are conducted as a part of the work. Demonstration work is less easily conducted in the Extension Schools for men because of the time of year. Because a large part of the field, orchard, and garden demonstrations have seasonal limitations, it is impossible to conduct such work as spraying, field seed corn selection, fertilizer mixing, apple packing, etc., without a force of instructors and demonstrators who can perform the work within the time limit. Demonstration work is much more slowly developed than is instructional work. We have long hoped to extend the teachings of this College through demonstrations along various additional lines but we shall be unable to develop this phase of the work further during the coming year.

In 1911-1912 *one hundred and thirty* spraying and pruning demonstrations were conducted; in 1912-1913, *one hundred and twenty-eight* such demonstrations and *twenty* demonstrations in the packing of apples. A few more pruning and spraying demonstrations would have been given had not the flood prevented. We have been fortunate in having a practical orchardist and apple packer employed on a short term contract during the past year but his services will have to be dispensed with during the coming year.

At special meetings for women there have been forty-one demonstrations. The Ohio Farm Women's Clubs have laid claim to more of our time for this work than we have been able to give them.

One of the most important features of Extension service is that rendered through publications. During 1911-1912 ten issues (33,000 copies each) of the Agricultural College Extension Bulletin were published for teachers and public school children and others who made request to be placed on the mailing list; in 1912-1913, ten issues 35,000 copies each. It will be necessary to lessen each issue a few thousand next year. Five issues (5,000 copies each) of the Farmers' Reading Course Bulletin have been printed. Five issues of a Home-Makers' Reading Course Bulletin have been arranged for but we have been able to publish only three. We hope to publish special series for farmers and housewives the coming year.

We expect to continue the newspaper service but it will be impossible to develop any new features in this field.

EXHIBITS

An agricultural exhibit to be educational must be made up of up-to-date utensils and mechanical appliances such as the Babcock Milk Tester, Corn Moisture Tester, and Drainage apparatus; of harmful and helpful life forms, standard rations for farm animals, etc. It should also include a series of contrasts,—proper and improper methods of plant propagation, tile drainage, care of milk, planting of home and public grounds, etc.; and good and bad taste in the selection of wall paper, floor coverings, pictures and picture framing, and dress goods.

We now have on hand twice as many applications for our fair exhibits as we shall be able to care for during the coming season. Since our two exhibits have been in use for three years, the wear from transportation makes reconstruction necessary. It has been thought best to fit out one first-class exhibit to lessen the expense for transportation and attendants. During each of the past two years we have served twelve county fairs and two corn shows. We shall be able to serve only about half as many fairs this fall.

We had hoped to arrange for the beginning of some work in correspondence courses during 1913-1914, but it will be impossible to develop

this work because of the necessity for rather expensive clerical help to correct manuscripts.

During the past four years, our greatest efforts have been put forth to increase the production of farm crops. It is now our desire to also promote some plans for marketing the produce of the farm most advantageously.

The sociological problems of the rural districts are thrusting themselves upon us for solution. It is quite in keeping with the function of the Agricultural Colleges to put forth an effort to solve some of them. To the end that both economic and social features of rural life may be improved, instructors who can develop either or both of these fields of work should be available for extension service. In planning our work for the future we have adhered to the primary function of this department of the Agricultural College, that of carrying *instruction* to the people remote from the institution. We shall attempt to make \$35,000 carry the instruction as far as possible without lowering the standards that have characterized the work during the past four years.

Yours very truly,

A. B. GRAHAM,
Superintendent.

APPENDIX I.

BOARD OF TRUSTEES, ¹⁹¹²⁻¹⁹¹³~~1910-1911~~.

	Date Original Appointment.	Term Expires
¹ Oscar T. Corson, Columbus.....	May 13, 1899.....	May 13, 1913
Walter J. Sears, Chillicothe.....	May 13, 1907.....	" 1914
John T. Mack, Sandusky.....	Feb. 24, 1893.....	" 1915
Julius F. Stone, Columbus.....	May 13, 1909.....	" 1916
Guy W. Mallon, Cincinnati.....	May 11, 1903.....	" 1917
O. E. Bradfute, Cedarville.....	Aug. 21, 1905.....	" 1918
Frank E. Pomerene, Coshocton.....	May 15, 1905.....	" 1919
² Benj. F. McCann, Dayton.....	May 13, 1913.....	" 1920

OFFICERS OF THE BOARD

W. J. SEARS.....	<i>Chairman</i>
JULIUS F. STONE.....	<i>Chairman</i>
CARL E. STEEB.....	<i>Secretary</i>
LOWRY F. SATER.....	<i>Treasurer</i>

COMMITTEES OF THE BOARD

EXECUTIVE

F. E. POMERENE,	J. F. STONE,
WATER J. SEARS.	

FARM

O. E. BRADFUTE,	O. T. CORSON,
W. J. SEARS.	

AUDITING

JOHN T. MACK,	GUY W. MALLON
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FACULTY

GUY W. MALLON,	F. E. POMERENE
JOHN T. MACK.	

BUILDING

W. O. THOMPSON,	W. J. SEARS.
WM. C. MCCracken,	C. E. STEEB, <i>Secretary</i> .

ROADS AND GROUNDS

W. O. THOMPSON,	J. F. STONE,
C. E. SHERMAN,	H. C. PRICE,

¹ Term expired May 13, 1913.² Succeeds Hon. O. T. Corson.

APPENDIX II.

ADMINISTRATIVE OFFICERS.

THE UNIVERSITY

WILLIAM OXLEY THOMPSON, D. D., LL. D.....	<i>President</i>
Office, University Hall.	
CARL E. STEEB, B. PH.....	<i>Business Manager and Secretary of Board of Trustees</i>
Office, University Hall.	
WILBUR E. MANN, M. A.,	<i>Secretary of the University Faculty and University Editor</i>
Office, University Hall.	
R. M. ROYER.....	<i>Assistant Purchasing Agent</i>
Office, University Hall.	
EDITH D. COCKINS, B. A.....	<i>Registrar</i>
Office, University Hall.	
KATHARINE H. DUNCAN.....	<i>Executive Clerk</i>
Office, University Hall.	
BESS C. WATTERS.....	<i>Cashier</i>
Office, University Hall.	
KARL D. SWARTZEL, PH. D.....	<i>Dean of the Summer Session</i>
Office, University Hall.	
GEORGE R. TWISS.....	<i>High School Visitor</i>
Office, University Hall.	
F. B. PEARSON.....	<i>High School Visitor</i>
Office, University Hall.	
C. C. MORRIS, M. A.....	<i>Secretary of the Entrance Board</i>
Office, University Hall.	
JOHN A. BOWNOCKER, D. SC.....	<i>Curator of Geological Museum</i>
WILLIAM C. MILLS, B. SC.....	<i>Curator of Archaeological Museum</i>
WILLIAM C. MCCracken.....	<i>Superintendent of Buildings and Chief Engineer</i>
Office, Power House.	

APPENDIX III.

MEMBERS OF UNIVERSITY FACULTY AND
OTHER INSTRUCTORS.

1912-1913

WILLIAM OXLEY THOMPSON.....	University Grounds
<i>President</i>	
WALTER QUINCY SCOTT.....	Ellensburg, Wash.
<i>Emeritus President and Professor of Philosophy</i>	
THOMAS CORWIN MENLENHALL.....	Ravenna, Ohio
<i>Emeritus Professor of Physics</i>	
SIDNEY AUGUSTUS NORTON.....	363 East Town Street
<i>Emeritus Professor of Chemistry</i>	
WILLIAM HENRY SCOTT.....	Clintonville
<i>Emeritus Professor of Philosophy</i>	
SAMUEL CARROLL DERBY.....	93 Fifteenth Avenue
<i>Professor of Latin</i>	
WILLIAM RANE LAZENBY.....	348 West Eighth Avenue
<i>Professor of Forestry</i>	
JOSIAH RENICK SMITH.....	120 Thirteenth Avenue
<i>Professor of Greek</i>	....
GEORGE WELLS KNIGHT.....	104 Fifteenth Avenue
<i>Professor of American History</i>	
ROSSER DANIEL BOHANNAN.....	226 Sixteenth Avenue
<i>Professor of Mathematics</i>	
ALBERT MARTIN BLEILE.....	218 King Avenue
<i>Professor of Anatomy and Physiology</i>	
GEORGE BEECHER KAUFFMAN.....	22 Fifteenth Avenue
<i>Professor of Pharmacy and Dean of the College of Pharmacy</i>	
BENJAMIN LESTER BOWEN.....	775 East Broad Street
<i>Professor of Romance Languages</i>	
JOSEPH VILLIERS DENNEY.....	190 West Eleventh Avenue
<i>Professor of English and Dean of the College of Arts, Philosophy and Science</i>	
EDWARD ORTON, JR.....	Lincoln Hotel
<i>Professor of Ceramic Engineering and Dean of the College of Engineering</i>	

*ALFRED DODGE COLE.....	
<i>Professor of Physics</i>	
JOHN J. ADAMS.....	102 Latta Avenue
<i>Professor of Law and Dean of the College of Law</i>	
WILLIAM THOMAS MAGRUDER.....	342 West Ninth Avenue
<i>Professor of Mechanical Engineering</i>	
EDGAR BENTON KINKEAD.....	1944 Iuka Avenue
<i>Professor of Law.</i>	
WILLIAM HERBERT PAGE.....	Station A, R. D. No. 5
<i>Professor of Law.</i>	
WILLIAM MCPHERSON.....	198 Sixteenth Avenue
<i>Professor of Chemistry</i>	
JOSEPH NELSON BRADFORD.....	1598 Neil Avenue
<i>Professor of Architecture</i>	
DAVID STUART WHITE.....	1656 Neil Avenue
<i>Professor of Veterinary Medicine and Dean of the College of Veterinary Medicine</i>	
HERBERT OSBORN.....	485 King Avenue
<i>Professor of Zoology and Entomology</i>	
OLIVE B. JONES.....	95 West Eleventh Avenue
<i>Librarian</i>	
HENRY CURWEN LORD.....	University Grounds
<i>Professor of Astronomy and Director of the Emerson McMillin Observatory</i>	
FRANK EDWIN SANBORN.....	90 East Fourteenth Avenue
<i>Professor of Industrial Arts and Director of the Department</i>	
FRANK ARNOLD RAY.....	R. F. D. No. 3, Newark, Ohio
<i>Professor of Mine Engineering</i>	
JOHN ALLEN SHAUCK.....	95 Winner Avenue
<i>Professor of Law</i>	
CAPT. GEORGE L. CONVERSE, U. S. A. (Retired).....	298 King Avenue
<i>Professor of Military Science and Tactics</i>	
OSCAR ERF.....	157 Twelfth Avenue
<i>Professor of Dairying</i>	
*EMBURY ASBURY HITCHCOCK.....	380 West Eighth Avenue
<i>Professor of Experimental Engineering</i>	

FRANCIS CARY CALDWELL.....	206 Sixteenth Avenue
<i>Professor of Electrical Engineering</i>	
CHARLES SMITH PROSSER.....	114 West Tenth Avenue
<i>Professor of Geology</i>	
JOHN ADAMS BOWNOCKER.....	185 Fifteenth Avenue
<i>Professor of Inorganic Geology and Curator of the Museum</i>	
RUTH A. WARDALL.....	22 Fourteenth Avenue
<i>Professor of Domestic Science</i>	
WILBUR HENRY SIEBERT.....	182 West Tenth Avenue
<i>Professor of European History</i>	
CHRISTOPHER ELIAS SHERMAN.....	141 Thirteenth Avenue
<i>Professor of Civil Engineering</i>	
EDMOND BOTHWELL DILLON.....	83 Wilson Avenue
<i>Professor of Law</i>	
GEORGE WASHINGTON RIGHTMIRE.....	262 Nineteenth Avenue
<i>Professor of Law</i>	
CHARLES SUMNER PLUMB.....	1980 Indianola Avenue
<i>Professor of Animal Husbandry</i>	
WILLIAM W. BOYD.....	56 North Monroe Avenue
<i>Professor of School Administration and Dean of the College of Education</i>	
SEPTIMUS SISSON.....	318 West Ninth Avenue
<i>Professor of Comparative Anatomy</i>	
HOMER CHARLES PRICE.....	1986 Indianola Avenue
<i>Professor of Rural Economics, and Dean of the College of Agriculture</i>	
MARSHALL B. EVANS.....	181 King Avenue
<i>Professor of German</i>	
DAVID R. MAJOR.....	118 West Frambes Avenue
<i>Professor of Psychology</i>	
CHARLES BRADFIELD MORREY.....	168 West Tenth Avenue
<i>Professor of Bacteriology</i>	
JAMES E. HAGERTY.....	94 Fifteenth Avenue
<i>Professor of Economics and Sociology</i>	
*ALFRED VIVIAN	
<i>Professor of Agricultural Chemistry</i>	

* Absent on leave, 1912-13.

FRANK HARVEY ENO.....	222 East Sixteenth Avenue
<i>Professor of Municipal Engineering</i>	
WENDELL PADDOCK	Grandview Heights
<i>Professor of Horticulture</i>	
ARTHUR GILLET MCCALL.....	141 West Eleventh Avenue
<i>Professor of Agronomy</i>	
JAMES ELLSWORTH BOYD.....	188 East Frambes Avenue
<i>Professor of Mechanics</i>	
THOMAS EWING FRENCH.....	1458 Worthington Street
<i>Professor of Engineering Drawing</i>	
H. SHINDLE WINGERT.....	12 East Fifteenth Avenue
<i>Professor of Physical Education for Men</i>	
FRANK PIERREPONT GRAVES.....	1340 Highland Avenue
<i>Professor of the History and Philosophy of Education</i>	
*HENRY RUSSELL SPENCER.....	
<i>Professor of Political Science</i>	
ALONZO HUERT TUTTLE.....	47 Twelfth Avenue
<i>Professor of Law</i>	
GEORGE H. MCKNIGHT.....	646 Franklin Avenue
<i>Professor of English</i>	
*THOMAS HARVEY HAINES.....	
<i>Professor of Psychology</i>	
GEORGE WASHINGTON MCCOARD.....	1448 Neil Avenue
<i>Professor of Mathematics</i>	
ARTHUR WINFRED HODGMAN.....	46 Fourteenth Avenue
<i>Professor of Latin</i>	
WILLIAM EDWARDS HENDERSON.....	1331 East Long Street
<i>Professor of Inorganic and Physical Chemistry</i>	
JOSEPH RUSSELL TAYLOR.....	155 Thirteenth Avenue
<i>Professor of English</i>	
*CHARLES A. BRUCE.....	
<i>Professor of Romance Languages</i>	
CHARLES WILLIAM FOULK.....	384 King Avenue
<i>Professor of Analytical Chemistry</i>	

*Absent on leave 1912-13

KARL DALE SWARTZEL.....	1952 Iuka Avenue
<i>Professor of Mathematics</i>	
FRANCIS LEROY LANDACRE.....	2026 Iuka Avenue
<i>Professor of Zoology and Entomology</i>	
WALLACE S. ELDEN.....	1734 Summit Street
<i>Professor of Latin</i>	
MATTHEW BROWN HAMMOND.....	1481 Michigan Avenue
<i>Professor of Economics and Sociology</i>	
HARRY WALDO KUHN.....	405 East Town Street
<i>Professor of Mathematics</i>	
ARTHUR ERNEST DAVIES.....	146 East Frambes Avenue
<i>Professor of Philosophy</i>	
CLYDE T. MORRIS.....	2043 Iuka Avenue
<i>Professor of Structural Engineering</i>	
JOSEPH A. LEIGHTON.....	14 South Eighteenth Street
<i>Professor of Philosophy</i>	
J. WARREN SMITH.....	375 West Eighth Avenue
<i>Professor of Meteorological Science</i>	
E. E. SOMERMEIER.....	1590 Neil Avenue
<i>Professor of Metallurgy and Mineralogy</i>	
CLAIR A. DYE.....	1569 Worthington Street
<i>Professor of Pharmacy</i>	
OSCAR V. BRUMLEY.....	105 Thirteenth Avenue
<i>Professor of Veterinary Surgery</i>	
MARY REBECCA LAVER.....	1475 Worthington Street
<i>Professor of Art</i>	
EUGENE F. McCAMPBELL.....	66 Fourteenth Avenue
<i>Professor of Bacteriology</i>	
A. G. G. RICHARDSON.....	294 King Avenue
<i>Professor of Veterinary Pathology</i>	
JOHN H. SCHAFFNER.....	174 Twelfth Avenue
<i>Professor of Botany</i>	
WILLIAM FRANKLIN GEPHART.....	64 Fourteenth Avenue
<i>Professor of Economics and Sociology</i>	

WILLIAM LLOYD EVANS.....	81 South Champion Avenue
<i>Professor of Chemistry</i>	
EDWIN F. CODDINGTON.....	426 Fifteenth Avenue
<i>Professor of Mechanics</i>	
CAROLINE M. BREYFOGLE.....	16 Fourteenth Avenue
<i>Dean of Women</i>	
WILLIAM LUCIUS GRAVES.....	1313 Forsythe Avenue
<i>Professor of English</i>	
JAMES RENWICK WITHROW.....	77 Sixteenth Avenue
<i>Professor of Chemistry</i>	
GEORGE FREDERICK ARPS.....	216 East Lane Avenue
<i>Professor of Psychology</i>	
FORREST K. PENCE.....	18 Fifteenth Avenue
<i>Professor of Ceramic Engineering</i>	
FREDERIC COLUMBUS BLAKE.....	1944 Summit Street
<i>Professor of Physics</i>	
ROBERT F. EARHART.....	371 West Tenth Avenue
<i>Professor of Physics</i>	
SAMUEL J. BARNETT.....	1634 Neil Avenue
<i>Professor of Physics</i>	
HOMER F. STALEY.....	38 Fourteenth Avenue
<i>Professor of Ceramic Engineering</i>	
FAYETTE AVERY MCKENZIE.....	83 Sixteenth Avenue
<i>Professor of Economics and Sociology</i>	
BERTHOLD AUGUST EISENLOHR.....	1594 Neil Avenue
<i>Professor of German</i>	
OLIVER CAREY LOCKHART.....	230 West Tenth Avenue
<i>Professor of Economics and Sociology</i>	
A. E. FLOWERS.....	1468 Michigan Avenue
<i>Professor of Electrical Engineering.</i>	
JAMES STEWART HINE.....	1340 Hunter Avenue
<i>Associate Professor of Zoology and Entomology</i>	
HORACE JUDD	281 Thirteenth Avenue
<i>Associate Professor of Experimental Engineering</i>	
EDGAR SHUGERT INGRAHAM.....	Clintonville, Ohio
<i>Associate Professor of Romance Languages</i>	

CHARLES ST. JOHN CHUBB.....	390 Fifteenth Avenue
<i>Associate Professor of Architecture</i>	
THOMAS SCOTT LOWDON.....	317 West Sixth Avenue
<i>Associate Professor of the Principles and Practice of Education</i>	
EDNA NOBLE WHITE.....	22 Fourteenth Avenue
<i>Associate Professor of Domestic Science</i>	
ALICE LITTLEJOHN.....	293 Eighteenth Avenue
<i>Associate Professor of Physical Education</i>	
HOMER C. HOCKETT.....	Worthington, Ohio
<i>Associate Professor of American History</i>	
SAMUEL EUGENE RASOR.....	1594 Neil Avenue
<i>Assistant Professor of Mathematics</i>	
JOHN F. LYMAN.....	1345 Highland Street
<i>Associate Professor of Agricultural Chemistry</i>	
CHARLES LINCOLN ARNOLD.....	328 West Eighth Avenue
<i>Associate Professor of Mathematics</i>	
EDGAR HOLMES MCNEAL.....	102 Hamilton Avenue
<i>Associate Professor of European History</i>	
RAYMOND JESSE SEYMOUR.....	262 Fourteenth Avenue
<i>Associate Professor of Anatomy and Physiology</i>	
WILLIAM ABNER KNIGHT.....	206 West Lane Avenue
<i>Associate Professor of Machine Shop Practice</i>	
EDMUND SEWALL MANSON, JR.....	4 Thirteenth Avenue
<i>Associate Professor of Astronomy</i>	
VERNON H. DAVIS.....	236 West Eighth Avenue
<i>Assistant Professor of Horticulture</i>	
THOMAS KENYON LEWIS.....	1534 North High Street
<i>Assistant Professor of Manual Training</i>	
WELLS H. MINOR.....	132 West Tenth Avenue
<i>Assistant Professor Mine Engineering</i>	
*CARSON SAMUEL DUNCAN.....	
<i>Assistant Professor of English</i>	
ROY K. SCHLAFLY.....	1826 North Fourth Street
<i>Assistant Professor of Civil Engineering</i>	

* Absent on leave, 1912-13,

MAY THOMAS	1634 Neil Avenue
<i>Assistant Professor of German</i>	
ROBERT FISKE GRIGGS.....	431 West Eighth Avenue
<i>Assistant Professor of Botany</i>	
JOHN BOWKER PRESTON.....	290 East Fifteenth Avenue
<i>Assistant Professor of Mathematics</i>	
CHACLES CLEMENTS MORRIS.....	149 East Frambes Avenue
<i>Assistant Professor of Mathematics</i>	
ROBERT MEIKLEJOHN.....	1528 Worthington Street
<i>Assistant Professor of Engineering Drawing</i>	
ALPHEUS WILSON SMITH.....	323 West Ninth Avenue
<i>Assistant Professor of Physics</i>	
THEODORE ELY HAMILTON.....	220 West Ninth Avenue
<i>Assistant Professor of Romance Languages</i>	
CLARENCE PERKINS.....	212 West Tenth Avenue
<i>Assistant Professor of European History</i>	
CHARLES E. BLANCHARD.....	139 West Northwood Avenue
<i>Assistant Professor of English</i>	
GRACE MARIE BAREIS.....	201 West Eleventh Avenue
<i>Assistant Professor of Mathematics</i>	
ALFRED PAUL DACHNOWSKI.....	307 West Ninth Avenue
<i>Assistant Professor of Botany</i>	
LOUIS ALBION COOPER.....	121 Fourteenth Avenue
<i>Assistant Professor of English</i>	
HARRY CLIFFORD RAMSOWER.....	57 East Woodruff Avenue
<i>Assistant Professor of Agronomy</i>	
EDWIN POE DURRANT.....	Westerville, Ohio
<i>Assistant Professor of Anatomy and Physiology</i>	
WILLIAM MORTON BARROWS.....	385 East Oakland Avenue
<i>Assistant Professor of Zoology and Entomology</i>	
DANA JAMES DEMOREST.....	385 Fifteenth Avenue
<i>Assistant Professor of Metallurgy and Mineralogy</i>	
LEWIS M. MONTGOMERY.....	1532 Worthington Street
<i>Assistant Professor of Horticulture</i>	
WILLIAM BARNEY COCKLEY.....	47 Twelfth Avenue
<i>Assistant Professor of Law.</i>	

CARL JOSEPH WEST.....	12 Chittenden Avenue
<i>Assistant Professor of Mathematics</i>	
ALEXANDER VALLANCE.....	70 West Woodruff Avenue
<i>Assistant Professor of Experimental Engineering</i>	
CHARLES SHEARD.....	88 East Eleventh Avenue
<i>Assistant Professor of Physics</i>	
ERNEST SCOTT.....	Clintonville, Ohio
<i>Assistant Professor of Pathology</i>	
ROBERT OSCAR BUSEY.....	2050 Iuka Avenue
<i>Assistant Professor of German</i>	
FONSA ALLEN LAMBERT.....	8 Fifteenth Avenue
<i>Assistant Professor of Comparative Anatomy</i>	
EDWIN LONG BECK.....	349 West Tenth Avenue
<i>Assistant Professor of English</i>	
CHARLES CLIFFORD HUNTINGTON.....	1485 Pennsylvania Avenue
<i>Assistant Professor of Economics and Sociology</i>	
HARRY F. HARRINGTON.....	1330 Forsythe Avenue
<i>Assistant Professor of English</i>	
THOMAS McD. HILLS.....	76 Twelfth Avenue
<i>Assistant Professor of Geology</i>	
SARAH T. BARROWS.....	1806 North High Street
<i>Assistant Professor of German</i>	
WILLIAM J. MCCAUGHY.....	111 East Woodruff Avenue
<i>Assistant Professor of Metallurgy and Mineralogy</i>	
FIRMAN E. BEAR.....	55 East Woodruff Avenue
<i>Assistant Professor of Agricultural Chemistry</i>	
GEORGE LIVINGSTON	Grandview Heights
<i>Assistant Professor of Agronomy</i>	
LUDWIG LEWISOHN.....	23 Sixteenth Avenue
<i>Assistant Professor of German</i>	
FRANCIS W. COKER.....	70 Twelfth Avenue
<i>Assistant Professor of Political Science</i>	
GARLAND A. BRICKER.....	175 Chittenden Avenue
<i>Assistant Professor of Agricultural Education</i>	
WILLIAM A. STARIN.....	Clintonville, Ohio
<i>Assistant Professor of Bacteriology</i>	

- HENRY F. WALRADT.....64 Fourteenth Avenue
Assistant Professor of Economics and Sociology
- FREEMAN S. JACOBY.....398 West Ninth Avenue
Assistant Professor of Poultry Husbandry
- J. H. SNOOK.....169 West Eleventh Avenue
Assistant Professor of Veterinary Surgery
- ANNA R. VAN METER.....1806 North High Street
Assistant Professor of Domestic Science
- T. S. HEWERDINE.....117 East Patterson Avenue
Assistant Professor of Civil Engineering
- JOHN ANDERSON WILKINSON.....9 Huston-Fergus Court
Assistant Professor of Chemistry
- OMER C. CUNNINGHAM.....368 East Northwood Avenue
Assistant Professor of Dairying
- WILLIAM C. MILLS.....78 West Tenth Avenue
Curator of Archaeology
- CHARLES PHILIP CROWE.....1627 North High Street
Instructor in Forging
- WILLIAM LEANDER CLEVINGER.....38 Twelfth Avenue
Instructor in Butter-making
- WILLIAM J. NORRIS.....60 East Eighth Avenue
Instructor in Engineering Drawing
- OWEN E. WILLIAMS.....2094 Tuller Street
Instructor in Engineering Drawing
- ALLANDO CASE.....Powell, Ohio
Instructor in Vise Work
- FREDERICA DETMERS.....1448 Neil Avenue
Instructor in Botany
- MARGARET STOKES FINNEY.....1485 Michigan Avenue
Instructor in Art
- EDWARD SPEASE.....89 East Norwich Avenue
Instructor in Pharmacy
- WILLIAM CLIFFORD MORSE.....12 East Lane Avenue
Instructor in Geology
- CLEMENT M. BEEM.....173 Fourteenth Avenue
Instructor in Pattern-making and Founding

JOHN WHYTE.....	316 West Eighth Avenue
<i>Instructor in German</i>	
FRANK H. HASKETT.....	229 West Eighth Avenue
<i>Instructor in Architecture</i>	
CREE SHEETS.....	59 East Lane Avenue
<i>Instructor in Engineering Drawing</i>	
ARTHUR C. HARPER.....	10 West Woodruff Avenue
<i>Instructor in Engineering Drawing</i>	
HERMAN GUSTAVUS HEIL.....	323 West Ninth Avenue
<i>Instructor in Physics</i>	
¹ DAVID RAYMOND KELLOGG.....	17 East Lane Avenue
<i>Instructor in Chemistry</i>	
GEORGE S. CHAPIN.....	19 Chittenden Avenue
<i>Instructor in Romance Languages</i>	
BEATRICE SHEETS.....	298 Woodland Avenue
<i>Instructor in Economics and Sociology</i>	
FREDERICK W. IVES.....	1495 Pennsylvania Avenue
<i>Instructor in Engineering Drawing</i>	
WILLIAM DAVIS TURNBULL.....	2208 Indiana Avenue
<i>Instructor in Engineering Drawing</i>	
CHRISTIAN H. GOETZ.....	1606 Neil Avenue
<i>Instructor in Forestry</i>	
CATHERINE C. CREAMER.....	1607 Neil Avenue
<i>*Instructor in Domestic Science</i>	
ALICE ROBINSON.....	237 King Avenue
<i>Instructor in Art</i>	
ROBERT E. ROCKWOOD.....	172 West Tenth Avenue
<i>Instructor in Romance Languages</i>	
DWIGHT A. WOODBURY.....	61 East Woodruff Avenue
<i>Instructor in Physics</i>	
ANNA F. BLOHM.....	22 Fourteenth Avenue
<i>Instructor in Domestic Art</i>	
THOMAS D. PHILLIPS.....	118 East Frambes Avenue
<i>Instructor in Rural Economics</i>	

¹ Resigned January 1, 1913.

*Part time only.

ROBERT N. WAID.....	147 West Eighth Avenue
<i>Instructor in Civil Engineering</i>	
EDWARD J. GILBERT.....	66 Chittenden Avenue
<i>Instructor in Engineering Drawing</i>	
CECIL E. BOORD.....	230 West Ninth Avenue
<i>Instructor in Chemistry</i>	
WILMER G. STOVER.....	325 West Tenth Avenue
<i>Instructor in Botany</i>	
JOHN E. SHEPARDSON.....	2144 Neil Avenue
<i>Instructor in Electrical Engineering</i>	
OTTO F. BOND.....	315 Twentieth Avenue
<i>Instructor in Romance Languages</i>	
A. M. SCHLESSINGER.....	212 West Tenth Avenue
<i>Instructor in Political Science</i>	
W. S. HINDMAN.....	370 Twelfth Avenue
<i>Instructor in Civil Engineering</i>	
R. A. BROWN.....	1386 Neil Avenue
<i>Instructor in Electrical Engineering</i>	
EDGAR M. ALLEN.....	246 East State Street
<i>Instructor in Anatomy and Physiology</i>	
MAUD C. HATHAWAY.....	1475 Worthington Street
<i>Instructor in Domestic Art</i>	
ROBERT B. STOLTZ.....	1565 Worthington Street
<i>Instructor in Dairying</i>	
D. J. KAYS.....	294 West Tenth Avenue
<i>Instructor in Animal Husbandry</i>	
BERTHA ARTHUR.....	8 Thirteenth Avenue
<i>Instructor in Romance Languages</i>	
THOMAS GUTHRIE PHILLIPS.....	31 Twelfth Avenue
<i>Instructor in Agricultural Chemistry</i>	
A. P. WEISS.....	1614 Highland Street
<i>Instructor in Psychology</i>	
HENRY C. OHLSON.....	149 West Ninth Avenue
<i>Instructor in Physical Education</i>	
GEORGE H. BARTHOLOMEW.....	16 Fifteenth Avenue
<i>Instructor in Physical Education</i>	

ULYSSES W. DENMAN.....	505 Chilcote Avenue
<i>Assistant in Pattern-making</i>	
CARL D. HARROP.....	2326 Indianola Avenue
<i>Assistant in Ceramic Engineering</i>	
HORTENSE RICKARD.....	333 West Tenth Avenue
<i>Assistant in Mathematics</i>	
G. O. WEIMER.....	207 West Eighth Avenue
<i>Assistant in Physics</i>	
DORA SAUER.....	24 Stewart Avenue
<i>Assistant in Physical Education</i>	
HOWARD E. BOUCHER.....	862 Mt. Vernon Avenue
<i>Assistant in Anatomy and Physiology</i>	
ADOLPH FEIEL.....	520 East Main Street
<i>Assistant in Anatomy and Physiology</i>	
C. C. MCCLELLAND.....	17 Sixteenth Avenue
<i>Assistant in Mechanical Engineering</i>	
ALICE CRANE.....	347 West Seventh Avenue
<i>Assistant in Domestic Science</i>	
OTTO W. PFLUEGER.....	399 Fourteenth Avenue
<i>Assistant in Forestry</i>	
J. H. WARREN.....	113 West Eighth Avenue
<i>Assistant in Anatomy and Physiology</i>	
LAURA PARSONS THOMAS.....	64 Fourteenth Avenue
<i>Assistant in Greek</i>	
² HAROLD C. MCCALL.....	Worthington, Ohio
<i>Assistant in Civil Engineering</i>	
JACOB A. FOUST.....	145 West Frambes Avenue
<i>Assistant in Forging</i>	
R. M. MOODY.....	65 West Eighth Avenue
<i>Assistant in Electrical Engineering</i>	
MARIE MCLELLAN.....	93 West Eleventh Avenue
<i>Assistant in Zoology and Entomology</i>	
WILLIAM HISLOP.....	294 West Tenth Avenue
<i>Assistant in Animal Husbandry</i>	

² Resigned February 1, 1913.

- GILBERT GUSLER.....1606 Neil Avenue
Assistant in Animal Husbandry
- WESLEY E. GATEWOOD.....Clintonville, Ohio
Assistant in Bacteriology
- ANDREW M. JANSEN.....12 West Ninth Avenue
Assistant in Bacteriology
- RALPH R. JEFFRIES.....212 West Tenth Avenue
Assistant in Horticulture
- H. LOUISE WOODFORD.....Station A, Columbus
Assistant in Archaeology
- J. N. SHOEMAKER.....Veterinary Clinic Building
Assistant in Veterinary Medicine
- W. GUARD.....Veterinary Clinic Building
Assistant in Veterinary Medicine
- ROBERT E. SMITH.....Westerville, Ohio
Assistant in Woodworking
- GEORGE T. CALDWELL.....61 Chittenden Avenue
Assistant in Chemistry
- A. I. BROWN.....92 Chittenden Avenue
Assistant in Mechanical Engineering
- JESSE E. DAY.....47 East Woodruff Avenue
Assistant in Chemistry
- ARIEL N. THURSTON.....1550 Neil Avenue
Assistant in Chemistry
- ELMER HOCKETT.....83 West Lane Avenue
Assistant in Chemistry
- ALVA W. SMITH.....1554 Highland Street
Assistant in Physics
- RALPH R. MURPHY.....162 West Tenth Avenue
Assistant and Fellow in Latin
- HOMER D. HOLLER.....197 West Eighth Avenue
Assistant in Chemistry
- JOHN J. BRECKUR.....1393 South Third Street
Assistant in Founding
- WINTHROP G. PLUMB.....1980 Indianola Avenue
Assistant in Industrial Arts

MALON YODER.....	128 West Tenth Avenue
<i>Assistant in Agronomy</i>	
MALCOLM SEWELL.....	181 West Eighth Avenue
<i>Assistant in Agronomy</i>	
RAY C. MCCALL.....	Worthington, Ohio
<i>Assistant in Civil Engineering</i>	
HARRIET N. TOWNSHEND.....	53 West Eleventh Avenue
<i>Assistant in Library</i>	
MAUD DOROTHY JEFFREY.....	161 Fourteenth Avenue
<i>Reference Librarian</i>	
GERTRUDE STOWELL KELLICOTT.....	1720 Summit Street
<i>Accession Librarian</i>	
CHARLES W. REEDER.....	2172 Indianola Avenue
<i>Assistant Reference Librarian</i>	
MIRPAH G. BLAIR.....	40 Eighteenth Avenue
<i>Head Cataloguer</i>	
BLANCHE L. SEIPEL.....	312 West Seventh Avenue
<i>Catalogue Assistant</i>	
DONALD LEIDIGH	47 King Avenue
<i>Accession Assistant in Library</i>	
BERTHA M. SCHNEIDER.....	1404 Wesley Avenue
<i>Assistant in Library</i>	
PAUL N. RICE.....	49 Eighteenth Avenue
<i>Assistant in Library</i>	
NELSON MCCOMBS.....	825 Franklin Avenue
<i>Assistant in Library</i>	
ALICE D. MCKEE.....	
<i>Cataloguer in Library</i>	
ALICE G. STEPHENS.....	
<i>Assistant Cataloguer</i>	
L. BERNEICE BROWN.....	
<i>Assistant in Library</i>	
ROY HABER.....	160 West Ninth Avenue
<i>Night Assistant in Library</i>	
LEROY J. VELER.....	116 West Ninth Avenue
<i>Night Assistant in Library</i>	

- GEORGE H. TAPPAN.....100 West Frambes Avenue
Student Assistant in Mechanical Engineering
- IRA C. CALLENDER.....103 West Ninth Avenue
Student Assistant in Mine Engineering
- ALBERT W. FIELD.....226 North Eighteenth Street
Student Assistant in Architecture
- THEO. H. PYLE.....317 West Tenth Avenue
Student Assistant in Drawing Engineering
- FLORENCE B. MARSH.....293 Eighteenth Avenue
Student Assistant in Physical Education
- JOHN M. HEFFELFINGER.....1864½ North High Street
Student Assistant in Physical Education
- ROBERT H. NEILAN.....66 West Tenth Avenue
Student Assistant in Mechanics
- CHARLES WARNER STAFFORD.....98 Twelfth Avenue
Student Assistant in Mine Engineering
- G. G. BARR.....183 West Ninth Avenue
Student Assistant in Mine Engineering
- W. R. WHEELOCK.....37 West Eleventh Avenue
Student Assistant in Rural Economics
- W. W. MARSHALL.....47 West Frambes Avenue
Student Assistant in Zoology and Entomology
- WILLIAM BAUCHMILLER.....138 West Ninth Avenue
Student Assistant in Zoology and Entomology
- V. R. HABER.....160 West Ninth Avenue
Student Assistant in Zoology and Entomology
- W. A. PRICE.....1712 East Main Street
Student Assistant in Zoology and Entomology
- A. R. SHADLE.....129 West Tenth Avenue
Student Assistant in Zoology and Entomology
- W. M. MCKENZIE.....1558 Hunter Street
Student Assistant in Anatomy and Physiology
- JOHN C. BOWMAN.....78 West Norwich Avenue
Student Assistant in Pharmacy
- MARY STORER.....31 West Tenth Avenue
Student Assistant in Zoology and Entomology

ROSE GORMLEY.....	Clintonville, Ohio
<i>Student Assistant in Botany</i>	
LILLIAN E. HUMPHREY.....	1866½ North High Street
<i>Student Assistant in Botany</i>	
W. W. LAKE.....	169 West Eleventh Avenue
<i>Student Assistant in Pharmacy</i>	
EDWIN S. WALLACE.....	124 Fourteenth Avenue
<i>Fellow in Chemistry</i>	
R. C. HUMMELL.....	139 West Ninth Avenue
<i>Fellow in Chemistry</i>	
WILLIAM N. FENNINGER.....	48 Seventeenth Avenue
<i>Fellow in Physics</i>	
JACKSON B. MCKINNEY.....	1622 Neil Avenue
<i>Fellow in English</i>	
EVA M. CAMPBELL.....	16 Fourteenth Avenue
<i>Fellow in English</i>	
CLARA GOULD MARK.....	Westerville, Ohio
<i>Fellow in Geology</i>	
ALBERT K. CHAPMAN.....	393 West Eighth Avenue
<i>Fellow in Physics</i>	
EVELYN OSBORN	485 King Avenue
<i>Fellow in Zoology and Entomology</i>	
E. C. HYTREE.....	159 West Eighth Avenue
<i>Fellow in Chemistry</i>	
J. B. DICKSON.....	1329 Summit Street
<i>Fellow in Chemistry</i>	
R. L. STEHLE.....	100 Mithoff Street
<i>Fellow in Chemistry</i>	
C. P. MCNEIL.....	1500 Neil Avenue
<i>Fellow in Chemistry</i>	
HUBERT E. BICE.....	128 West Tenth Avenue
<i>Fellow in English</i>	
CLINTON B. CLEVINGER.....	38 Twelfth Avenue
<i>Fellow in Agricultural Chemistry</i>	
EARL JONES.....	37 West Eleventh Avenue
<i>Fellow in Agricultural Chemistry</i>	

E. BASIL HAWES.....	207 West Eighth Avenue
<i>Fellow in Agricultural Chemistry</i>	
BLANCHE McAVOY.....	1371 Michigan Avenue
<i>Fellow in Botany</i>	
ELOISE RAMSEY.....	1371 Highland Street
<i>Fellow in English</i>	
ROBERT C. BURGETT.....	574 Wilson Avenue
<i>Fellow in English</i>	
E. P. BENGERT.....	62 East Eleventh Avenue
<i>Fellow in English</i>	
WAHNITA DELONG.....	137 Chittenden Avenue
<i>Fellow in English</i>	
EMMA ROWER.....	343 West Tenth Avenue
<i>Fellow in English</i>	
PAUL M. HERBERT.....	1892 North High Street
<i>Fellow in English</i>	
GENEVIEVE LAWRENCE.....	297 West Tenth Avenue
<i>Fellow in English</i>	
MARY C. WAKEFIELD.....	172 West Lane Avenue
<i>Fellow in English</i>	
KATHARINE M. ROESER.....	1622 Neil Avenue
<i>Fellow in English</i>	
RALPH B. WILSON.....	2554 North High Street
<i>Fellow in English</i>	
CHARLES ROSS SCHROYER.....	1554 Highland Street
<i>Fellow in Geology</i>	
J. M. RUDWIN.....	115 West Eleventh Avenue
<i>Fellow in German</i>	
EDWARD SCHMIDT.....	75 West Tenth Avenue
<i>Fellow in Chemistry</i>	
W. J. STEPHENS.....	Greenlawn Avenue
<i>Fellow in Chemistry</i>	
H. A. GEAUQUE.....	15 West Tenth Avenue
<i>Fellow in Chemistry</i>	
J. UNDERWOOD.....	181 West Tenth Avenue
<i>Fellow in Chemistry</i>	

CLARE O. EWING.....	1928 North High Street
	<i>Fellow in Chemistry</i>
CLIFFORD E. REICHARD.....	19 West Tenth Avenue
	<i>Fellow in Chemistry</i>
W. J. KOSTIR.....	129 West Tenth Avenue
	<i>Fellow in Zoology and Entomology</i>
S. W. BILSING.....	139 West Ninth Avenue
	<i>Fellow in Zoology and Entomology</i>
ESTHER D. FAVILLE.....	93 West Eleventh Avenue
	<i>Fellow in Zoology and Entomology</i>
MARGUERITE ICKES.....	The Normandie
	<i>Fellow in Zoology and Entomology</i>

AGRICULTURAL EXTENSION DEPARTMENT

A. B. GRAHAM.....	168 Twelfth Avenue
	<i>Superintendent of Agricultural Extension.</i>
*C. J. GRANT.....	956 Neil Avenue
	<i>Instructor in Agronomy in Agricultural Extension</i>
M. A. BACHTELL.....	31 Twelfth Avenue
	<i>Instructor in Agricultural Chemistry in Agricultural Extension</i>
VERNON H. DAVIS.....	236 West Eighth Avenue
	<i>Assistant Professor of Horticulture in Agricultural Extension</i>
¹ T. L. WHEELER.....	Station A, R. R. No. 5
	<i>Editor—Agricultural Extension</i>
² J. H. GOURLEY.....	29 Fourteenth Avenue
	<i>Assistant Professor of Horticulture in Agricultural Extension</i>
R. B. CRUICKSHANK.....	516 West Sixth Avenue
	<i>Instructor in Horticulture in Agricultural Extension</i>
H. E. ESWINE.....	1240 East Long Street
	<i>Assistant in Agricultural Extension</i>
W. H. PALMER.....	8 Chittenden Avenue
	<i>Instructor in Animal Husbandry in Agricultural Extension</i>
CLARK S. WHEELER.....	31 Twelfth Avenue
	<i>Assistant in Agricultural Extension</i>

*Resigned May 1, 1913.

¹Resigned March 31, 1913.

²Resigned September 15, 1912.

ELMA P. FOULK.....	384 King Avenue
<i>Superintendent of Reading and Correspondence Courses</i>	
MABEL MISKIMEN.....	1607 Neil Avenue
<i>Instructor in Domestic Science in Agricultural Extension</i>	
JOSEPHINE MATTHEWS.....	1607 Neil Avenue
<i>Assistant in Domestic Science in Agricultural Extension</i>	
KATHERINE D. ALLEN.....	1607 Neil Avenue
† <i>Assistant in Domestic Science in Agricultural Extension</i>	
CATHERINE C. CREAMER.....	1607 Neil Avenue
† <i>Assistant in Domestic Science in Agricultural Extension</i>	

† Six months.

FACULTY.

The instructional force of the University for the year ending June 30, 1913, was classified as follows: President, 1; Emeritus President and Professor, 1; Emeritus Professors, 3; Professors, 92; Associate Professors, 15; Assistant Professors, 48; Instructors, 45; Assistants, 38; Fellows, 39; Student Assistants, 21; High School Visitors, 2; Curators, 2; Total, 307.

The Library staff: Librarian, 1; Assistants, 15.

The title and compensation of members of the Faculty and of other officers and employees of the University are given in Statement No. 3.

APPENDIX IV

REPORT OF THE TREASURER.

In compliance with Section 7 of the Organic Act, passed by the Legislature of Ohio, May 1, 1878 (Bates' Annotated Statutes, Sec. 4105-42), which requires the list of "the number of professors, officers, teachers and other employees, and the compensation of each, to be annually reported", the following report is submitted:

REPORT OF THE TREASURER—Continued.

Name of Employee.	Position.	Salary.
William Oxley Thompson..	President	\$7,000 00
Alfred Vivian	Professor of Agricultural Chemistry....	2,000 00
Henry A. Weber.....	Professor of Agricultural Chemistry (2 mos.)	450 00
John F. Lyman.....	Associate Professor of Agricultural Chemistry	1,800 00
Firman E. Bear.....	Assistant Professor of Agricultural Chemistry	1,500 00
Thomas G. Phillips.....	Instructor in Agricultural Chemistry....	1,000 00
Clinton B. Clevenger.....	Fellow in Agricultural Chemistry.....	300 00
Earl Jones	Fellow in Agricultural Chemistry.....	300 00
E. Basil Hawes.....	Fellow in Agricultural Chemistry.....	300 00
Arthur G. McCall.....	Professor of Agronomy.....	2,200 00
H. C. Ramsower.....	Assistant Professor of Agronomy.....	1,800 00
George Livingston	Assistant Professor of Agronomy.....	1,500 00
Malcolm Sewell	Assistant in Agronomy.....	500 00
Malon Yoder	Assistant in Agronomy (part time).....	485 00
Walter E. McCoy.....	Assistant in Agronomy (part time).....	250 00
Charles S. Plumb.....	Professor of Animal Husbandry.....	3,000 00
Freeman S. Jacoby.....	Assistant Professor of Poultry Husbandry	1,500 00
D. J. Kays.....	Instructor in Animal Husbandry.....	1,400 00
William Hislop	Assistant in Animal Husbandry.....	1,200 00
Gilbert Gusler	Assistant in Animal Husbandry.....	1,200 00
D. M. Fyffe.....	Superintendent of Live Stock.....	1,200 00
B. E. Carmichael.....	Assistant in Animal Husbandry (Winter Course)	150 00
J. W. Hammond.....	Assistant in Animal Husbandry (Winter Course)	150 00
Otho H. Pollock.....	Assistant in Animal Husbandry (Winter Course)	200 00
J. H. Schaffner.....	Professor of Botany.....	2,250 00
R. F. Griggs.....	Assistant Professor of Botany.....	1,500 00
A. Dachnowski	Assistant Professor of Botany.....	1,700 00
Freda Detmers	Instructor in Botany.....	1,300 00
W. G. Stover.....	Instructor in Botany.....	1,400 00
Blanche McAvoy	Fellow in Botany.....	300 00
Rose Gormley	Student Assistant in Botany.....	150 00
Lillian E. Humphrey.....	Student Assistant in Botany.....	150 00
F. B. H. Brown.....	Florist	600 00
Oscar Erf	Professor of Dairying.....	2,500 00
O. C. Cunningham.....	Assistant Professor of Dairying.....	1,700 00
W. L. Clevenger.....	Instructor in Butter-making.....	1,500 00
Robert B. Stoltz.....	Instructor in Dairying (part time).....	916 67
Ruth A. Wardall.....	Professor of Domestic Science.....	2,000 00
Edna N. White.....	Associate Professor of Domestic Science	1,600 00

REPORT OF THE TREASURER — Continued.

Name of Employee.	Position.	Salary.
Anna F. Blohm.....	Instructor in Domestic Art (part time).	840 00
Maude C. Hathaway.....	Instructor in Domestic Art.....	1,100 00
Anna R. Van Meter.....	Assistant Professor of Domestic Science (part time)	750 00
Catherine C. Creamer.....	Instructor in Domestic Science (part time)	300 00
Alice Crane	Assistant in Domestic Science.....	750 00
Cora Elliott	Maid	350 00
W. R. Lazenby.....	Professor of Forestry.....	2,500 00
C. H. Goetz.....	Instructor in Forestry.....	1,200 00
Otto W. Pflueger.....	Assistant in Forestry.....	800 00
Wendell Paddock	Professor of Horticulture.....	2,750 00
V. H. Davis.....	Assistant Professor of Horticulture...	1,500 00
L. M. Montgomery.....	Assistant Professor of Horticulture...	1,800 00
Ralph Jeffries	Assistant in Horticulture.....	600 00
J. Warren Smith.....	Professor of Meteorology.....	500 00
Homer C. Price.....	Professor of Rural Economics and Dean of the College of Agriculture..	2,750 00
Thomas D. Phillips.....	Instructor in Rural Economics.....	1,200 00
G. B. Woodrow.....	Farm foreman (part time).....	300 00
W. R. Wheelock.....	Student Assistant in Rural Economics (part time)	250 00
Herbert Osborn	Professor of Zoology and Entomology..	2,750 00
F. L. Landacre.....	Professor of Zoology and Entomology..	2,000 00
J. S. Hine.....	Associate Professor of Zoology and En- tomology	1,600 00
Wm. M. Barrows.....	Assistant Professor of Zoology and En- tomology	1,600 00
Marie McLellan	Assistant in Zoology and Entomology..	700 00
W. J. Kostir.....	Fellow in Zoology and Entomology.....	300 00
Esther D. Faville.....	Fellow in Zoology and Entomology.....	300 00
Marguerite Ickes	Fellow in Zoology and Entomology.....	300 00
S. W. Bilsing.....	Fellow in Zoology and Entomology.....	300 00
Evelyn Osborn	Fellow in Zoology and Entomology.....	300 00
A. R. Shadle.....	Student Assistant in Zoology and En- tomology	150 00
Mary Storer	Student Assistant in Zoology and En- tomology	100 00
W. W. Marshall.....	Student Assistant in Zoology and En- tomology	75 00
William Bauchmiller	Student Assistant in Zoology and En- tomology	75 00
V. R. Haber.....	Student Assistant in Zoology and En- tomology	75 00
W. A. Price.....	Student Assistant in Zoology and En- tomology	75 00
George W. Knight.....	Professor of American History.....	3,000 00
H. C. Hockett.....	Associate Professor of American His- tory	1,800 00
A. M. Bleile.....	Professor of Anatomy and Physiology..	2,750 00
R. J. Seymour.....	Associate Professor of Anatomy and Physiology	1,700 00
E. P. Durrant.....	Assistant Professor of Anatomy and Physiology	1,400 00
Edgar M. Allen.....	Instructor in Anatomy and Physiology..	1,000 00
Adolph Feiel	Assistant in Anatomy and Physiology..	400 00
H. E. Boucher.....	Assistant in Anatomy and Physiology..	250 00
J. H. Warren.....	Assistant in Anatomy and Physiology..	250 00

REPORT OF THE TREASURER — Continued.

Name of Employee.	Position.	Salary.
W. M. McKenzie.....	Student Assistant in Anatomy and Physiology	250 00
C. B. Morrey.....	Professor of Bacteriology.....	2,750 00
E. F. McCampbell.....	Professor of Bacteriology.....	100 00
W. A. Starin.....	Assistant Professor of Bacteriology...	1,600 00
W. E. Gatewood.....	Assistant in Bacteriology.....	775 00
A. M. Jansen.....	Assistant in Bacteriology.....	775 00
J. E. Hagerty.....	Professor of Economics and Sociology..	2,750 00
M. B. Hammond.....	Professor of Economics and Sociology..	2,200 00
F. A. McKenzie.....	Professor of Economics and Sociology..	2,000 00
W. F. Gephart.....	Professor of Economics and Sociology..	2,000 00
O. C. Lockhart.....	Professor of Economics and Sociology..	2,000 00
C. C. Huntington.....	Assistant Professor of Economics and Sociology	1,800 00
Henry F. Walradt.....	Assistant Professor of Economics and Sociology	1,400 00
Beatrice Sheets	Instructor in Economics and Sociology..	1,300 00
J. V. Denney.....	Professor of English and Dean of College of Arts Philosophy and Science..	3,250 00
J. R. Taylor.....	Professor of English.....	2,400 00
G. H. McKnight.....	Professor of English.....	2,400 00
W. L. Graves.....	Professor of English.....	2,000 00
C. S. Duncan.....	Assistant Professor of English.....	1,500 00
C. E. Blanchard.....	Assistant Professor of English.....	1,000 00
L. A. Cooper.....	Assistant Professor of English.....	1,400 00
E. L. Beck.....	Assistant Professor of English.....	1,400 00
J. B. McKinney.....	Fellow in English.....	300 00
Eva M. Campbell.....	Fellow in English.....	300 00
Kathryn M. Roeser.....	Fellow in English.....	300 00
Hubert E. Bice.....	Fellow in English.....	300 00
Eloise Ramsey.....	Fellow in English.....	300 00
Robert O. Burgett.....	Fellow in English.....	300 00
E. P. Bengert.....	Fellow in English.....	300 00
Wahnita DeLong	Fellow in English.....	300 00
Emma Rower.....	Fellow in English.....	300 00
Paul M. Herbert.....	Fellow in English.....	300 00
Genevieve Lawrence	Fellow in English (part time).....	120 00
Ralph B. Wilson.....	Fellow in English (part time).....	180 00
Mary C. Wakefield.....	Fellow in English.....	300 00
W. H. Siebert.....	Professor of European History.....	2,750 00
E. H. McNeal.....	Associate Professor of European History	1,800 00
Clarence Perkins	Assistant Professor of European History	1,700 00
C. S. Prosser.....	Professor of Geology.....	2,750 00
J. A. Bownocker.....	Professor of Inorganic Geology and Curator of Museum.....	2,200 00
T. McD. Hills.....	Assistant Professor of Geology.....	1,500 00
W. C. Morse.....	Instructor in Geology.....	1,300 00
Clara G. Mark.....	Fellow in Geology.....	300 00
Charles R. Schroyer.....	Fellow in Geology.....	300 00
M. B. Evans.....	Professor of German.....	2,750 00
B. A. Eisenlohr.....	Professor of German.....	2,000 00
May Thomas.....	Assistant Professor of German.....	1,250 00
Ludwig Lewisohn	Assistant Professor of German.....	1,500 00
K. O. Busey.....	Assistant Professor of German.....	1,500 00
Sarah Barrows	Assistant Professor of German.....	1,300 00
John Whyte	Instructor in German.....	1,000 00
J. M. Rudwin.....	Fellow in German.....	300 00

REPORT OF THE TREASURER—Continued.

Name of Employee.	Position.	Salary.
J. R. Smith.....	Professor of Greek.....	2,750 00
S. C. Derby.....	Professor of Latin.....	2,750 00
A. W. Hodgman.....	Professor of Latin.....	2,000 00
W. S. Elden.....	Professor of Latin.....	2,000 00
Ralph R. Murphy.....	Assistant and Fellow in Latin.....	500 00
Laura P. Thomas.....	Assistant in Greek.....	300 00
J. A. Leighton.....	Professor of Philosophy.....	2,750 00
A. E. Davies.....	Professor of Philosophy.....	2,000 00
H. R. Spencer.....	Professor of Political Science.....	2,000 00
F. W. Coker.....	Assistant Professor of Political Science.....	1,400 00
A. M. Schlesinger.....	Instructor in Political Science.....	900 00
B. L. Bowen.....	Professor of Romance Languages.....	2,750 00
C. A. Bruce.....	Professor of Romance Languages.....	1,800 00
E. S. Ingraham.....	Associate Professor of Romance Languages.....	1,800 00
T. E. Hamilton.....	Assistant Professor of Romance Languages.....	1,400 00
G. S. Chapin.....	Instructor in Romance Languages.....	1,300 00
R. E. Rockwood.....	Instructor in Romance Languages.....	1,100 00
O. F. Bond.....	Instructor in Romance Languages.....	1,000 00
Bertha Arthur.....	Instructor in Romance Languages.....	500 00
Mary R. Laver.....	Professor of Art.....	2,000 00
Margaret S. Finney.....	Instructor in Art.....	1,350 00
Alice Robinson.....	Instructor in Art.....	1,200 00
F. P. Graves.....	Professor of History and Philosophy of Education.....	3,000 00
Thos. K. Lewis.....	Assistant Professor of Manual Training.....	1,500 00
T. S. Lowden.....	Associate Professor of Principles and Practice of Education.....	1,800 00
D. R. Major.....	Professor of Psychology.....	2,500 00
Thos. H. Haines.....	Professor of Psychology.....	1,800 00
George F. Arps.....	Professor of Psychology.....	2,250 00
A. P. Weiss.....	Instructor in Psychology.....	1,400 00
W. W. Boyd.....	Professor of School Administration and Dean of College of Education.....	3,000 00
G. A. Bricker.....	Assistant Professor of Agricultural Education.....	1,750 00
J. N. Bradford.....	Professor of Architecture.....	1,900 00
C. St. J. Chubb.....	Associate Professor of Architecture.....	1,800 00
F. H. Haskett.....	Instructor in Architecture.....	1,500 00
Albert Field.....	Student Assistant in Architecture.....	300 00
H. C. Lord.....	Professor of Astronomy.....	2,750 00
E. S. Manson, Jr.....	Associate Professor of Astronomy.....	1,600 00
Edward Orton, Jr.....	Professor of Ceramic Engineering and Dean of College of Engineering.....	3,250 00
Forrest K. Pence.....	Professor of Ceramic Engineering.....	2,000 00
H. F. Staley.....	Professor of Ceramic Engineering.....	2,000 00
Carl B. Harrop.....	Assistant in Ceramic Engineering.....	600 00
J. C. Lysatt.....	Technician (part time).....	540 00
S. A. Norton.....	Emeritus Professor of Chemistry.....	1,250 00
William McPherson.....	Professor of Chemistry and Dean of the Graduate School.....	2,750 00
W. E. Henderson.....	Professor of Inorganic and Physical Chemistry.....	2,250 00
C. W. Foulk.....	Professor of Analytical Chemistry.....	2,000 00
W. L. Evans.....	Professor of Chemistry.....	2,000 00
J. R. Withrow.....	Professor of Chemistry.....	2,000 00
J. A. Wilkinson.....	Assistant Professor of Chemistry.....	1,500 00
D. R. Kellogg.....	Instructor in Chemistry (part time).....	480 00

REPORT OF THE TREASURER—Continued.

Name of Employee.	Position.	Salary.
C. E. Boord.....	Instructor in Chemistry.....	1,000 00
J. E. Day.....	Assistant in Chemistry.....	700 00
Elmer Hockett.....	Assistant in Chemistry.....	700 00
H. D. Holler.....	Assistant in Chemistry.....	700 00
George T. Caldwell.....	Assistant in Chemistry.....	700 00
Ariel N. Thurston.....	Assistant in Chemistry (part time).....	420 00
J. B. Dickson.....	Fellow in Chemistry.....	300 00
E. C. Hytree.....	Fellow in Chemistry.....	300 00
R. L. Stehle.....	Fellow in Chemistry.....	300 00
C. P. McNeil.....	Fellow in Chemistry.....	300 00
E. S. Wallace.....	Fellow in Chemistry.....	300 00
R. C. Hummell.....	Fellow in Chemistry.....	300 00
Edward Schmidt.....	Fellow in Chemistry.....	300 00
W. J. Stephens.....	Fellow in Chemistry (part time).....	210 00
H. A. Geauque.....	Fellow in Chemistry.....	300 00
J. Underwood.....	Fellow in Chemistry.....	300 00
Clare O. Ewing.....	Fellow in Chemistry.....	300 00
Clifford E. Reichard.....	Fellow in Chemistry (part time).....	150 00
C. E. Sherman.....	Professor of Civil Engineering.....	2,500 00
F. H. Eno.....	Professor of Municipal Engineering.....	2,250 00
C. T. Morris.....	Professor of Structural Engineering.....	2,500 00
R. K. Schlafly.....	Assistant Professor of Civil Engineering.....	1,700 00
T. S. Hewerdine.....	Assistant Professor of Civil Engineering.....	1,500 00
Robert N. Waid.....	Instructor in Civil Engineering.....	1,200 00
W. S. Hindman.....	Instructor in Civil Engineering.....	1,300 00
H. C. McCall.....	Assistant in Civil Engineering (part time).....	300 00
R. C. McCall.....	Assistant in Civil Engineering (part time).....	300 00
F. C. Caldwell.....	Professor of Electrical Engineering.....	2,500 00
A. E. Flowers.....	Professor of Electrical Engineering.....	2,000 00
J. E. Shepardson.....	Instructor in Electrical Engineering.....	1,000 00
R. A. Brown.....	Instructor in Electrical Engineering.....	1,000 00
R. M. Moody.....	Assistant in Electrical Engineering.....	700 00
W. R. Alexander.....	Machinist.....	1,020 00
Thomas E. French.....	Professor of Engineering Drawing.....	3,000 00
Robert Meiklejohn.....	Assistant Professor of Engineering Drawing.....	1,600 00
A. C. Harper.....	Instructor in Engineering Drawing.....	1,300 00
O. E. Williams.....	Instructor in Engineering Drawing.....	1,300 00
Cree Sheets.....	Instructor in Engineering Drawing.....	1,300 00
F. W. Ives.....	Instructor in Engineering Drawing.....	1,200 00
Wm. D. Turnbull.....	Instructor in Engineering Drawing.....	1,200 00
W. J. Norris.....	Instructor in Engineering Drawing.....	800 00
E. J. Gilbert.....	Instructor in Engineering Drawing.....	1,000 00
Theo. H. Pyle.....	Student Assistant in Engineering Drawing.....	300 00
F. E. Sanborn.....	Professor of Industrial Arts.....	2,200 00
W. A. Knight.....	Associate Professor of Machine Shop Practice.....	1,600 00
C. P. Crowe.....	Instructor in Forging.....	1,300 00
C. M. Beem.....	Instructor in Pattern-making and Founding.....	1,300 00
A. A. Case.....	Instructor in Vise Work.....	1,155 00
U. W. Denman.....	Assistant in Pattern-making and Founding.....	990 00
J. A. Foust.....	Assistant in Forging.....	935 00
Robert E. Smith.....	Assistant in Wood-working.....	750 00
John J. Breckur.....	Assistant in Founding.....	750 00

REPORT OF THE TREASURER — Continued.

Name of Employee.	Position.	Salary.
W. G. Plumb.....	Student Assistant in Industrial Arts...	300 00
R. D. Bohannon.....	Professor of Mathematics.....	2,750 00
G. W. McCoard.....	Professor of Mathematics.....	1,800 00
K. D. Swartzel.....	Professor of Mathematics.....	2,100 00
H. W. Kuhn.....	Professor of Mathematics.....	2,100 00
C. L. Arnold.....	Associate Professor of Mathematics.....	1,500 00
S. E. Raser.....	Associate Professor of Mathematics.....	1,600 00
J. B. Preston.....	Assistant Professor of Mathematics.....	1,500 00
C. C. Morris.....	Assistant Professor of Mathematics.....	1,600 00
Grace Bareis.....	Assistant Professor of Mathematics.....	1,200 00
C. J. West.....	Assistant Professor of Mathematics.....	1,400 00
Hortense Rickard.....	Assistant in Mathematics.....	600 00
William T. Magruder.....	Professor of Mechanical Engineering.....	2,750 00
E. A. Hitchcock.....	Professor of Experimental Engineering.....	1,800 00
Horace Judd.....	Associate Professor of Experimental Engineering.....	1,700 00
A. Vallance.....	Assistant Professor of Experimental Engineering.....	1,200 00
C. C. McClelland.....	Assistant in Mechanical Engineering.....	900 00
A. I. Brown.....	Assistant in Mechanical Engineering.....	750 00
George H. Tappan.....	Student Assistant in Mechanical Engineering.....	300 00
J. J. Davis.....	Machinist.....	1,020 00
Roy Pratt.....	Helper and Fireman.....	720 00
J. E. Boyd.....	Professor of Mechanics.....	2,500 00
E. F. Coddington.....	Professor of Mechanics.....	2,000 00
Robert H. Neilan.....	Student Assistant in Mechanics.....	300 00
E. E. Somermeier.....	Professor of Metallurgy and Mineralogy.....	2,200 00
D. J. Demorest.....	Assistant Professor of Metallurgy and Mineralogy.....	1,800 00
W. J. McCaughey.....	Assistant Professor of Metallurgy and Mineralogy.....	1,600 00
F. A. Ray.....	Professor of Mine Engineering.....	2,000 00
Wells H. Minor.....	Assistant Professor of Mine Engineering.....	1,800 00
Ira C. Callendar.....	Student Assistant in Mine Engineering.....	300 00
Charles W. Stafford.....	Student Assistant in Mine Engineering.....	300 00
G. G. Barr.....	Student Assistant in Mine Engineering (1st semester).....	150 00
A. D. Cole.....	Professor of Physics.....	2,000 00
R. F. Earhart.....	Professor of Physics.....	2,000 00
F. C. Blake.....	Professor of Physics.....	2,000 00
S. J. Barnett.....	Professor of Physics.....	2,000 00
A. W. Smith.....	Assistant Professor of Physics.....	1,700 00
Charles Sheard.....	Assistant Professor of Physics.....	1,500 00
H. G. Heil.....	Instructor in Physics.....	1,100 00
D. A. Woodbury.....	Instructor in Physics.....	1,000 00
G. O. Weimer.....	Assistant in Physics.....	850 00
Alva W. Smith.....	Assistant in Physics.....	600 00
W. N. Fenninger.....	Fellow in Physics.....	300 00
Albert K. Chapman.....	Fellow in Physics.....	300 00
Arthur P. Freund.....	Mechanician.....	1,200 00
John J. Adams.....	Professor of Law and Dean of College of Law.....	5,000 00
W. H. Page.....	Professor of Law.....	3,000 00
G. W. Rightmire.....	Professor of Law.....	3,000 00
A. H. Tuttle.....	Professor of Law.....	3,000 00
W. B. Cockley.....	Assistant Professor of Law.....	1,800 00
I. A. Shauck.....	Professor of Law.....	1,000 00
E. B. Dillon.....	Professor of Law.....	800 00

REPORT OF THE TREASURER — Continued.

Name of Employee.	Position.	Salary.
E. B. Kinkead.....	Professor of Law.....	800 00
George B. Kauffman.....	Professor of Pharmacy and Dean of College of Pharmacy.....	2,000 00
C. A. Dye.....	Professor of Pharmacy.....	2,000 00
Edward Spease.....	Instructor in Pharmacy.....	1,500 00
J. C. Bowman.....	Student Assistant in Pharmacy.....	300 00
W. W. Lake.....	Student Assistant in Pharmacy.....	400 00
D. S. White.....	Professor of Veterinary Medicine and Dean of College of Veterinary Medi- cine.....	3,000 00
S. Sisson.....	Professor of Comparative Anatomy.....	3,000 00
O. V. Brumley.....	Professor of Veterinary Surgery.....	2,750 00
A. G. G. Richardson.....	Professor of Veterinary Pathology.....	2,500 00
J. H. Snook.....	Assistant Professor of Veterinary Sur- gery.....	1,900 00
F. A. Lambert.....	Assistant Professor of Comparative Anatomy.....	1,600 00
Ernest Scott.....	Assistant Professor of Pathology.....	750 00
J. W. Shoemaker.....	Assistant in Veterinary Medicine.....	750 00
W. Guard.....	Assistant in Veterinary Medicine.....	750 00
J. D. Groves.....	Clerk, Veterinary Hospital.....	100 00
A. B. Clements.....	Technician.....	600 00
G. L. Converse.....	Professor of Military Science and Tac- tics.....	450 00
Gustav Bruder.....	Band Master.....	350 00
H. S. Wingert.....	Professor of Physical Education.....	2,750 00
Alice Littlejohn.....	Associate Professor of Physical Educa- tion.....	1,500 00
Henry C. Ohlson.....	Instructor in Physical Education.....	1,200 00
George H. Bartholomew.....	Instructor in Physical Education.....	1,000 00
Dora Sauer.....	Assistant in Physical Education.....	700 00
Florence B. Marsh.....	Student Assistant in Physical Education.....	300 00
John M. Heffelfinger.....	Student Assistant in Physical Education.....	200 00
Dora Conder.....	Maid (part time).....	270 00
Lola Stout.....	Maid (part time).....	90 00
Olive Jones.....	Librarian.....	2,000 00
Harriet N. Townshend.....	Assistant in Library.....	700 00
Gertrude S. Kellicott.....	Accession Librarian.....	1,320 00
Maud Jeffrey.....	Reference Librarian.....	1,320 00
Charles W. Reeder.....	Assistant Reference Librarian.....	1,320 00
Mirpah G. Blair.....	Head Cataloguer.....	1,200 00
Blanche L. Seipel.....	Cataloguing Assistant.....	720 00
Bertha M. Schneider.....	Library Assistant.....	840 00
Paul N. Rice.....	Library Assistant.....	840 00
Donald Leidigh.....	Accession Assistant.....	720 00
Alice G. Stephens.....	Assistant Cataloguer (part time).....	510 00
Alice D. McKee.....	Cataloguer (part time).....	560 00
Nelson McCombs.....	Library Assistant.....	600 00
L. Bernice Brown.....	Library Assistant (part time).....	440 00
Leroy J. Veler.....	Night Assistant in Library.....	300 00
Roy Haber.....	Night Assistant in Library.....	240 00
W. C. Mills.....	Curator—Archaeology.....	600 00
H. Louise Woodford.....	Assistant in Archaeology.....	120 00
F. B. Pearson.....	High School Visitor.....	2,200 00
G. R. Twiss.....	High School Visitor.....	2,200 00
Caroline M. Breyfogle.....	Dean of Women.....	2,000 00
Katharine H. Duncan.....	Executive Clerk.....	1,500 00
Anna M. Long.....	Stenographer—President's Office.....	600 00

REPORT OF THE TREASURER—Continued.

Name of Employee.	Position.	Salary.
Carl E. Steeb.....	Secretary of Board of Trustees and Purchasing Agent	2,750 00
R. M. Royer.....	Assistant Purchasing Agent.....	1,700 00
Bess. C. Watters.....	Cashier	1,080 00
Jane S. Haskett.....	Chief Clerk	900 00
Mary Kraus	Auditor	960 00
Clara Baker	Book-keeper	780 00
Maude Blue	Bill Clerk	600 00
Louise Kraus	Assistant Book-keeper	660 00
Loretta A. Gray.....	Stenographer (part time).....	512 50
Helen Zeller	Inventory Clerk	660 00
Florence L. Sharpe.....	Cost Clerk	600 00
Edith D. Cockins.....	Registrar	1,600 00
Lucy M. Taylor.....	Assistant in Registrar's Office.....	840 00
Helen H. Mackall.....	Assistant in Registrar's Office (part time)	360 00
Mabel Boardman	Assistant in Registrar's Office.....	720 00
Clara Miller	Assistant in Registrar's Office (part time)	400 00
Marian Waters	Assistant in Registrar's Office (part time)	200 00
W. E. Mann.....	Editor	1,800 00
Lulu Smith	Stenographer—Editor's Office (part time)	100 00
Nellie D. Keith.....	Stenographer—Editor's Office (part time)	45 00
Jessie B. Bush.....	Stenographer—Editor's Office (part time)	405 00
G. H. McKnight.....	Chairman of Entrance Board.....	400 00
C. C. Morris.....	Secretary of Entrance Board.....	400 00
Isabel McNeal.....	Stenographer—Entrance Board.....	600 00
R. K. Schlafly.....	Chairman of Schedule Committee.....	360 00
W. F. Gephart.....	Secretary of Appointment Committee.....	400 00
F. E. Jones.....	Store Keeper	1,300 00
H. W. Brewer.....	First Assistant in Store Room.....	900 00
C. S. Lehner.....	Second Assistant in Store Room (part time)	165 00
H. W. Miller.....	Second Assistant in Store Room (part time)	450 00
James Lawson	Porter—Store Room	600 00
Nellie Copeland	Stenographer—Townshend Hall	660 00
W. Aimee Obaugh.....	Stenographer—Townshend Hall	600 00
Elizabeth J. Fyffe.....	Clerk—Townshend Hall (part time).....	280 00
Naomi Haber	Clerk—Townshend Hall (part time).....	140 00
Harriet Schneider	Stenographer—Page Hall	600 00
Ethel Althoff	Stenographer—University Hall	600 00
Bernice Blue	Stenographer—University Hall	600 00
Mina Kennedy	Stenographer—Hayes Hall	600 00
Edna Burnham	Stenographer—Robinson Laboratory (part time)	500 00
Eva L. Long.....	Stenographer—Robinson Laboratory (part time)	100 00
Nettie Shugert	Stenographer—Brown Hall	600 00
Louise Stickelmyer.....	Stenographer—Veterinary Laboratory...	600 00
Ruth McManamy	Stenographer—Judging Pavilion	600 00
Mary L. Lahmering.....	Stenographer—Lord Hall	600 00
Emeline McClelland	Stenographer—College of Engineering...	550 00
Mary E. Thomas.....	Stenographer—Physics and Biological Halls (part time).....	475 00

REPORT OF THE TREASURER—Continued.

Name of Employee.	Position.	Salary.
Nellie Thurston	Stenographer—Chemistry Hall (part time)	128 00
Corda C. Smith.....	Stenographer—Chemistry Hall (part time)	472 00
John F. Madden.....	Clerk—Military Department	500 00
W. F. Felch.....	Clerk—Physical Education Department..	500 00
Charles E. Findlay.....	Clerk—Military Department	500 00
Mabel Rodebaugh.....	Stenographer—Department of Economics and Sociology.....	300 00
Helen L. Bush.....	Stenographer—Judging Pavilion (1 month)	50 00
Wm. C. McCracken.....	Chief Engineer and Superintendent of Buildings and Grounds.....	2,333 32
William Standley	Assistant Chief Engineer (part time)..	350 00
C. M. Dunbar.....	Clerk	660 00
W. B. Booth.....	Assistant Superintendent of Buildings and Grounds (part time).....	900 00
W. H. Case.....	First Engineer	1,020 00
Erred Brewer	Second Engineer	900 00
W. D. Hicks.....	Third Engineer	900 00
C. Ashenhurst	First Fireman	840 00
Samuel Lowery	Second Fireman	840 00
Otto Law	Third Fireman	840 00
Harry Osborn	Helper (part time).....	270 00
G. B. Woodrow.....	Campus Foreman (part time).....	720 00
J. C. McClellan.....	Assistant Electrician (part time).....	115 36
G. W. Dillihunt.....	Assistant Electrician (part time).....	426 83
A. O. Kaiser.....	Helper (part time)	450 00
J. P. Covan.....	Master Mechanic	1,400 00
B. A. LeBay.....	Steam Fitter	960 00
F. H. Beck.....	Electrician	940 00
R. C. Kaiser.....	Plumber	1,140 00
I. C. Reasoner.....	Blacksmith	780 00
Charles M. Hicks.....	Inspectors of Buildings and Janitors...	780 00
William North	Day Policeman	720 00
W. F. Mahaffey.....	Night Watchman	720 00
John T. Daniels.....	Night Watchman	720 00
M. S. Harvey.....	Elevator Man	300 00
H. E. Truxall.....	Painter	900 00
J. J. Weate.....	Janitor—University Hall	600 00
Jack Gantz.....	Janitor—University Hall	600 00
L. F. Jordan.....	Janitor—University Hall (Night).....	600 00
D. W. Williams.....	Janitor—Chemistry Building	600 00
William Daehler	Janitor—Chemistry Building	600 00
William Surgeon	Janitor—Chemistry Building (Night)...	550 00
M. N. Cook.....	Janitor—Hayes Hall	600 00
Anna Miller	Janitress—Hayes Hall (part time).....	332 50
J. A. Bond.....	Janitor—Armory and Gymnasium.....	600 00
Richard Brandon	Janitor—Armory and Gymnasium.....	600 00
E. J. Nutt.....	Janitor—Armory and Gymnasium.....	600 00
J. W. Brown.....	Janitor—Page Hall	600 00
Starling Eaton	Janitor—Page Hall (part time).....	360 00
Earl Conway	Janitor—Physics Hall	600 00
S. A. Williams.....	Janitor—Orton Hall	600 00
Lou. Cornett (Mrs.).....	Janitress—Orton Hall	420 00
G. C. Denny.....	Janitor—Botanical and Horticultural Halls	600 00
Stanley Porter	Student Janitor—Botanical Hall.....	300 00
Paul M. Crider.....	Student Janitor—Observatory	300 00
G. W. Weygandt.....	Janitor—Veterinary Clinic Building.....	600 00

REPORT OF THE TREASURER—Concluded

Name of Employee.	Position.	Salary.
B. F. Tallmadge.....	Janitor—Veterinary Clinic Building.....	600 00
Emmett Beecher	Janitor—Veterinary Clinic Building (part time)	73 33
E. L. Clements.....	Janitor—Veterinary Laboratory	600 00
Oscar Metze	Janitor—Veterinary Laboratory	500 00
Fred Fleischer	Janitor—Townshend Hall	600 00
E. B. Seaman.....	Janitor—Townshend Hall	480 00
John T. Miller.....	Janitor—Townshend Hall	600 00
Oliver Smith	Janitor—Robinson Laboratory	600 00
R. M. Moore.....	Janitor—Robinson Laboratory	600 00
W. M. Stahl.....	Janitor—Brown Hall	600 00
W. R. Thomas.....	Janitor—Brown Hall	480 00
J. W. DeWitte.....	Janitor—Lord Hall	600 00
W. W. Whitmer.....	Janitor—Lord Hall	600 00
Robert Hall	Janitor—Biological Hall	600 00
Harry Chantler	Janitor—Library Building	600 00
O. E. Kiger.....	Janitor—Library Building (part time).....	275 00
John O'Rourke	Janitor—Library Building (part time).....	275 00
Ida Morgan	Janitress—Hayes Hall (part time).....	17 50
W. H. Walker.....	Janitor—Veterinary Clinic Building (part time)	400 00
B. N. Lewis.....	Janitor	222 89
I. N. Bradford.....	University Architect	1,600 00
Herbert Edwards	Clerk of the Works	1,560 00
Coletta Kelly	Stenographer—University Architect's Office	600 00
A. B. Graham.....	Superintendent of Agricultural Ex- tension	2,750 00
H. E. Eswine.....	Assistant in Agricultural Extension.....	1,200 00
Ruth M. James.....	Clerk in Agricultural Extension.....	1,200 00
T. L. Wheeler.....	Agricultural Extension Editor (part time)	1,575 00
C. J. Grant.....	Instructor in Agronomy in Agricultural Extension (part time).....	1,250 00
M. A. Bachtell.....	Instructor in Agricultural Chemistry in Agricultural Extension.....	1,500 00
J. H. Gourley.....	Assistant Professor of Horticulture in Agricultural Extension (part time).....	375 00
R. B. Cruickshank.....	Instructor in Horticulture in Agricul- tural Extension (part time).....	1,275 00
Clark S. Wheeler.....	Assistant in Agricultural Extension (part time)	666 65
V. H. Davis.....	Assistant Professor of Horticulture in Agricultural Extension	300 00
W. H. Palmer.....	Instructor in Animal Husbandry in Agricultural Extension	1,375 00
Mabel Miskimen	Instructor in Domestic Science in Ag- cultural Extension	1,200 00
Josephine Matthews	Assistant in Domestic Science in Agri- cultural Extension	1,000 00
Katharine D. Allen.....	Assistant in Domestic Science in Agri- cultural Extension (6 mos.).....	600 00
Catherine C. Creamer.....	Assistant in Domestic Science in Agri- cultural Extension (6 mos.).....	600 00
Elma P. Foulk.....	Superintendent of Reading and Corre- spondence Courses in Agricultural Extension	600 00
Alice McMillan	Stenographer—Agricultural Extension Department	660 00

APPENDIX V.

THE WORK OF INSTRUCTORS 1912-1913.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
AGRICULTURAL CHEMISTRY.						
Agricultural Chemistry, Application of Chemistry to Agriculture, 2 years.....				102	4	97
General Agricultural Chemistry.....	103	5	150	104	5	144
Advanced Agricultural Analysis.....	105	5	4	106	5	3
Home Economics Chemistry.....	123	4-5	38	124	4-5	34
Home Economics Chemistry.....				123	4-5	76
Dairy Chemistry.....	107	3-5	2	108		0
Chemistry of Soils.....	109	3-5	6	110	3-5	10
Food Inspection and Analysis.....	121	3-5	9	122	3-5	5
Advanced Household Chemistry.....	125	3-5	7	126	3-5	4
Research Work.....	131	5-10	6	132	5-10	4
Winter Course.....			200 (about)			
AGRONOMY.						
Field Crop Production.....	106	4	98			
Seed and Market Grain.....	109	2	18			
Advanced Crop Production.....	115	5	1	116	5	1
Theses (Crop Production).....		2	2			
Farm Equipment.....	103	4	107			
Farm Architecture.....	121	2	12			
Elementary Soils.....	105	4	42			
Field Crop Improvement.....	113	3	6			
Advanced Soils.....	107	4	2			
Research Work in Soils.....	119	5	1	120	5	1
Agricultural Experimentation.....				110	3	10
Elementary Soils.....				104	4	156
Crop Production.....				108	4	97
Grasses and Forage Crops.....				111	3	71
Theses (Crop Production).....					2	2
Farm Equipment.....				101	4	115
Agricultural Engineering.....				102	3	61
Short Winter Course (Crop Production).....						131
Short Winter Course (Farm Mechanics).....						142
AMERICAN HISTORY.						
Political History of United States.....	101	3	116	102	3	104
Revolutionary and Critical Period.....	105	2	3	106	2	3
Constitutional History of United States.....	107	2	24	108	2	17
The American Colonies.....	103	2	9	104	2	9
The Slavery Struggle to 1854.....	111	3	15			
The Slavery Struggle and its Results, 1854-1900.....				112	3	13
The Teaching of American History.....	121	2	2			
The United States and Latin America, Graduate Course.....	203	2	4	204	2	2
Graduate Seminar.....	205	2	2	206	2	2
ANATOMY AND PHYSIOLOGY.						
Physiology.....	101	3	352	102	3	329
Physiology—Short Courses.....	107	3	13			
Physiology.....	119	3	62	120	3	52
Histology.....	105	5	61			
Chemical Physiology.....				106	5	62
Physiology—Advanced.....	115	3	4	118	3	2
Physiology—Veterinary.....				114	3	51
ANIMAL HUSBANDRY.						
Types and Classes of Cattle and Sheep.....	101	4	225			
Types and Classes of Horses and Swine.....				102	4	201

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
ANIMAL HUSBANDRY—Concluded.						
Breeds of Horses and Sheep.....	103	4	35	104	4	30
Breeds of Cattle and Swine.....	105	3	64	106	4	34
Feeding Animals.....	107	4	16	108	4	19
Principles of Breeding.....	109	2	29	110	1	7
Animal Conformation and Stock Judging.....	110	2	18	112	3	6
Live Stock Management.....	117	3	18	118	3	19
Horse Training, Harness and Vehicle.....	119	4	96	120	1	6
Meats and Meat Products.....	121	4	30	122	1	6
Live Stock Markets and Commerce.....	123	4	30	116	4	26
Poultry Husbandry.....	125	3	5	128	3	43
Poultry Feeding.....	129	4	96	130	4	92
Incubator Practice.....	131	4	19	132	4	19
Dairy Cattle.....	133	4	30			
Dairy Cattle.....	135	3	5			
Feeding Animals.....	137	4	96			
Feeding and Breeding Animals.....	139	4	96			
Types and Breeds of Farm Animals.....	141	4	96			
Types and Breeds of Live Stock (Vet. Students).....	143	4	19			
ARCHITECTURE.						
History of Architecture.....	101	3	18	102	3	12
Order Problems.....	103	2	14	104	5	12
Design (Architectural).....	105	5	11	107	5	1 spl.
Design (Architectural).....	109	3	11	108	4	11
Decoration and Ornament.....	113	2	10			
Architectural Composition.....	115	6	11	110	4	11
Working Drawings.....	117	1	10	114	3	10
Design (Architectural).....	119	2	11	116	4	11
Design (Architectural).....	121	2	12	118	5	11
Professional Practice.....	123	2	12	124	3	10
Plumbing.....	125	2	49	112	2	38
Thesis.....	127	2	2	122	2	2
Masonry.....	129	2	11			
Heating and Ventilating..... (M. E.)	131	2	12			
Heating and Ventilating.....	133	2	12			
Photography.....	135	2	49	112	2	38
Photography.....	137	2	2	122	2	2
ART.						
Design and Composition.....	101	2	149	102	2	139
Still Life Composition.....	103	1 or more	14	104	1 or more	14
Design and Composition.....	105	2	63	106	2	56
Still Life Composition in Color Values.....	107	1 or more	10	108	1 or more	8
Design and Composition.....	109	2	4	110	2	5
Study from Head and Costumed Model.....	111	1 or more	2	112	1 or more	2
Design and Composition.....	113	2	3	114	2	3
Advanced Course in Painting from Still Life and Model, and Outdoor Sketching.....	115	1 or more	1	116	1 or more	1
The Teaching of Art.....	117	3	4	118	3	4
Art Appreciation.....	119	1	44	120	1	39
ASTRONOMY.						
General Astronomy.....	101	3	49	102	3	38
Astronomy, Geodesy and Least Squares.....	105	3	21	104	3	21
Advanced Astronomy.....	107	3	1	108	3	1
The Theory of Lenses.....	109	1	1	110		1
BACTERIOLOGY.						
General and Pathogenic for Veterinary Students, For Pharmacy Students.....	101	4	45	102	2	25
For Students in Short Course in Agriculture.....	107	3-5	136	104	3	8
General Bacteriology (In all colleges except Law).....	107	3-5	136			

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
BACTERIOLOGY—Concluded.						
Pathogenic Bacteriology				108	2-5	73
Dairy Bacteriology				110	2-5	11
Soil Bacteriology				112	2-5	10
Water and Sewage Bacteriology				114	2-5	4
Immunity and Serum Therapy	117	2-5	29	118	2-5	17
Advanced Soil Bacteriology	123	3-5	1			
Special Problems in Bacteriology (and Thesis)	125	3-5	3	126	3-5	4
Students in Domestic Science Seminar not credited to Department of Bacteriology and working on Bacteriological Problems			3			3
BIBLIOGRAPHY.						
Agricultural Bibliography	103	1½	241			
Bibliography for the Social Sciences	105	1	2	106	1	3
BOTANY.						
General Botany	101	4	273	102	4	223
Dendrology				110	2	34
Elementary Botany				112	4	25
Plant Pathology				116	3	12
Forest Botany	117	4	14	118	4	12
Field Botany				120	2	3
Plant Genetics	121	2	13			
Advanced Morphology	123	5	5	124	5	3
Plant Physiology	125	4	25	126	4	24
Special Mycology	127	3	11	128	3	11
Systematic Botany	129	5	6	130	5	8
Cytology and Microtechnique	131	4	1	132	4	1
Minor Investigations	133	3	4	134	3	7
Evolution of Plants	135	1	5	136	1	3
Research in Systematic Botany	201	4	2	202	4	3
Research in Morphology and Cytology	203	3	2	204	3	2
Research in Physiology and Ecology	205	5	1	206	5	1
CERAMIC ENGINEERING.						
Ceramic Manufacture	103	5	14	104	5	14
Ceramic Lectures (Colors and Glazes)				110	2	9
Ceramic Calculations				106	2	12
Ceramic Laboratory	111	5	9	112	5	9
Ceramic Chemistry	101	5	10	102	3	10
Physical Measurements				108	3	4
Thesis Work				116	4	3
Ceramic Designing	113	3	9	114	3	9
Ceramic Engineering	124	5	1			
CHEMISTRY.						
Elementary Chemistry and Qualitative Analysis	101	4	159	102	4	10
Elementary Chemistry and Qualitative Analysis	105	4	474	106	4	400
General Chemistry and Qualitative Analysis	109	4	338	110	4	265
Qualitative Analysis				106	4	400
Advanced General Chemistry	113	2	92	114	2	70
Qualitative Analysis	117	3	16			
Quantitative Analysis	119	4	76	120	4	61
Quantitative Analysis	121	4	25			
Chemical Problems				124	1	59
Organic Chemistry	127	5	104			
Reading of Chemical Literature				136	2	13
Thesis (Engineers)				140	5-10	9
Organic Chemistry	151	2	69	152	2	63
Organic Chemistry	153	2-3	66	154	2-3	45
Physical Chemistry	157	3	32	158	3	31
Physical Chemistry	161	3	2	162	3	3
Quantitative Analysis	165	3	9			
Special Methods of Analysis	167	3-5	4			
Qualitative Analysis				168	3-5	22

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
CHEMISTRY—Concluded.						
Sanitary Analysis				176	3	13
Industrial Chemistry	177	2	23	178	1	15
Industrial Inspection Trip				182	1	12
Written Report				184	1	2
Industrial Chemistry	185	2	13	186	2	11
Inorganic Preparations	187	2	13	188	2	10
Rare Elements	191	2	17			
Applied Electro-chemistry				194	2	9
Physical Chemistry	201	3	2	202	3	1
Advanced Organic Chemistry	205	3-5	2	206	3-5	2
Historical Chemistry	213	2	5			
Organic Chemistry	215	2	11			
Analytical Chemistry	227	2	4			
Chemical Seminar	231	1	18	232	1	18
Research Work	235	5-10	10	236	5-10	9
CIVIL ENGINEERING.						
Land Surveying	101	4	47			
Field Practice in Land Surveying	101a	1	44			
Railroad Surveying				102	3	40
Field Practice in Railroad Surveying				102a	1	34
Topographic Drawing	103	2	42			
Summer Surveying Camp, 104-4-4						
Topographic Surveying	105	3	24			
Roads and Streets				106	3	31
Stereotomy	107	3	33			
Timber Construction				108	3	32
Sanitary Engineering	109	2	29			
Stresses in Structures				110	4	31
Summer Surveying Camp, 111-4-2						
Railway Location				112	4	20
Bridge Designing	113	4	26			
Advanced Bridges				114	4	5
Masonry Construction	115	3	27			
Masonry Structures				116	3	24
Water Supply	117	3	17	117a	3	11
Cement and Concrete	118a	3	16	118	3	16
Thesis	119	1	26	122	4	27
Contracts and Specifications				120	2	22
Surveying and Topographic Drawing	121	6	22			
Trusses	123	3	23	124	3	25
Tall Buildings	125	3	10			
Timber and Masonry				126	2	25
Plane Surveying				128	2	64
DAIRYING.						
Principles of Dairying	101	4	119			
Elementary Dairying	109	4	47			
City Milk Supply	103	2	2	104	2	28
Butter Making	105	5	15	106	5	27
Cheese Making	107	3	4	108	3	2
Dairy Mechanics	111	3	5			
Ice Cream Making and Milk Condensing				110	5	8
Farm Dairying				102	4	72
Advanced Dairying	113	3	9	114	3	7
(See foot note.)						
DOMESTIC SCIENCE.						
Foods	101	4	100	102	4	96
Dietetics				110	4	29
The House				104	3	50
Seminar	105	2	31	106	3-5	31
Household Management	107	3	37			

NOTE—In addition to these, there were 94 in the Winter Course who took work in Dairying for eight weeks and 22 who were in the Special Dairy Course for eight weeks.

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
DOMESTIC SCIENCE—Concluded.						
Teachers' Course	108	3	28			
Domestic Art						
Textiles	101	2	134	102	2	124
Dress	103	3	47			
Household Art				104	3	38
Dress				106	3	26
ECONOMICS AND SOCIOLOGY.						
Principles of Economics	135	3	247	136	3	198
Principles of Economics	135a	3	9	136a	3	20
Economic History of England and the United States	131	3	49	132	3	42
Economic Geography	133	3	39	134	3	57
Elements of Accounting	139	2	49	140	2	28
Public Finance	141	2	10			
Business Law	143	3	20			
Commercial Development	159	3	19			
Commercial Policies				160	3	18
Financial History				142	2	6
Life Insurance	157	2	22			
Property Insurance				158	2	20
Municipal Economics and Finance				159	3	4
Senior Seminar in Economics	145	2	4	146	2	3
Corporation Economics	163	3	33			
Industrial Organization				164	3	27
Labor Legislation	165	3	17			
Organization and Remuneration of Labor				165	3	15
Principles of Accounting	171	3	12			
Cost Accounting				172	3	11
Distribution of Wealth	203	3	3	204	3	1
Graduate Seminar	207	2	6	208	2	4
Principles of Sociology	101	3	153	102	3	130
The Negro	105	3	11			
The Immigrant				104	3	16
Modern Charity	109	3	28			
Criminology				110	3	33
Field Work in Sociology	115	2	5	116	2	6
Seminar in Sociology	117	2	10	118	2	7
ELECTRICAL ENGINEERING.						
General Electrical Engineering	101	5	30			
General Electrical Engineering	103	3	34			
Direct Current Machinery				104	5	33
Applications of Electricity				106	14 ¹ / ₂	33
Alternating Current Circuits and Machinery				108	14 ¹ / ₂	33
Alternating Currents—Continued	109	3	25			
Advanced Current Laboratory	111	3	26			
Advanced Alternating Current Laboratory				112	3	27
Electric Railways	113	2	16			
Telephony	115	2	13			
Electric Illumination	117	2	13			
Wireless Telegraphy (Not given in 1912-13)	119	2				
Electric Design	121	3	25			
Electric Design				122	2	1
Electric Transmission and Distribution				124	2	28
Special Reading and Laboratory				126	2	9
Thesis	127	1	26	128	5	26
Inspection Trip East (Not given in 1912-13)				130		
Inspection Trip West				132		49
Reading Course (Alternative with E. E. 130)				134		
Reading Course (Alternative with E. E. 132)				136		8
ENGINEERING DRAWING.						
Elementary Mechanical Drawing	101	2	302			
Mechanical Drawing				102	3	234
Descriptive Geometry	103	3	137			

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
ENGINEERING DRAWING—Concluded.						
Machine Sketching				104	3	73
Descriptive Geometry	105	3	35	106	3	34
Advanced Descriptive Geometry	107	3	15	110	2	35
Technical Sketching	111	2	54			
Technical Drawing	113	4	11	114	3	6
Freehand Drawing and Lettering	115	2	12	116	2	12
Mechanical Drawing				118	3	10
Charcoal and Architectural Ornament	117	3	16			
Pen Drawing	119	2	8	121	2	19
Water Color	121	2	21	122	2	104
Charcoal Drawing from the Antique	125	2	129	126	2	81
Clay Modeling	127	1½	91	128	1½	11
Technical Drawing	129	1	13	130	2	4
Mechanical Drawing				132	3	3
Mechanical Drawing	131	3	3	136	1	10
Mechanical Drawing	135	1	1			
House Planning	137	2	13	138	2	
Lettering						
Technical Drawing						
The Teaching of Mechanical Drawing						
Technical Delineation						
Engineering Drawing						
ENGLISH.						
Paragraph Writing	101	2	926	102	2	50
Paragraph Writing				104	2	801
Advanced Description and Narration	107	2	61	108	2	56
Advanced Argumentative Writing	111	2	20	112	2	15
News Collecting and News Writing and Correspondence	113	3	46	114	2	38
Newspaper Practice	115	3	4	116	3	6
Principles of Public Speaking and Debating	121	2	68	122	2	65
Advanced Debating and Extempore Speaking	123	2	20	124	2	20
History of the English Language	127	2	27			
English Words				128	2	29
Survey of English Literature	131	3	175	132	3	43
Survey of American Literature	133	3	52	134	3	168
The Age of Elizabeth	135	2	18			
Eighteenth Century Essayists	137	2	29	138	2	28
Nineteenth Century Essayists						
The Romantic Movement	139	2	59	140	2	51
Wordsworth and his Period	141	3	33			
Tennyson				142	3	33
Browning	151	3	7	152	3	7
Old and Middle English	153	2	7			
Chaucer				154	2	5
English Fiction to Richardson	155	3	46	156	3	44
The Novel	157	3	14			
Versification				158	3	17
The Short Story	165	2	7			
Early Popular Drama				166	2	5
Drama from 1580 to 1642	167	3	80	168	3	68
Shakespeare	169	2	51	170	2	45
Modern English Drama	201	2	3			
Beginning of the Short Story				202	2	4
The Lyric	205	2	14			
History of Critical Theory				206	2	11
Problems in the Drama	207	2	13			
Meredith, Hardy, James				208	2	13
Poetry and Drama since 1880	209	2	4			
Ballads						
English Usage	219	2	12	220	2	5
Dissertations				221	2	12
The Teaching of English				182	2	21
EUROPEAN HISTORY.						
Medieval History	101	3	172			
Modern History from 1500				102	3	155

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
EUROPEAN HISTORY—Concluded.						
History of England.....	103-4	3	57	103-4	3	52
History of Greece.....	105	3	10	106	3	12
Medieval Civilization.....	107	3	14	108	2	9
The Age of the Renaissance, 1250-1500.....	109	3	4			
The Period of the Reformation.....				110	3	3
The French Revolutionary and Napoleonic Periods.....	111	3	30			
Europe in the Nineteenth Century.....				112	3	39
Constitutional History of England.....	113	3	10	114	3	12
Northeastern Europe.....	117	3	11			
Europe and Asia—The Far Eastern Question.....				118	2	11
History of France.....	121	2	7	122	2	9
Seminar in Modern European History.....	203	2	2	204	2	3
FORESTRY.						
Introduction to Forestry.....	101	2	40			
Introduction to Forestry.....				102	2	30
Arboriculture and Tree Surgery.....				104	3	30
Silviculture.....	105	3	18			
Silviculture.....				106	3	13
Forest Mensuration.....	107	4	11			
Forest Utilization and Lumbering.....				108	4	11
Forest History, Relations and Management.....	109	4	16			
Forest Economics and Policies.....				110	4	18
Thesis.....	sp.	2	6	sp.	2	6
GEOLOGY.						
Physiography.....	101	3	77	102	3	62
Inorganic Geology.....	103	3	16			
Historical Geology.....				104	3	14
General Geology.....	165	3	162	152	3	121
Applied Geology.....	153	3	130			
Economic Geology.....	167	3	22			
General Geology.....				168	3	51
Petrography.....				166	2	12
Field Geology.....	105	3	4			
Glacial Geology.....				106	3	5
Invertebrate Paleontology.....	107	2	2	108	2-5	6
Elementary Physiography.....				162	4	3
Minor Investigations and Current Literature.....	141b	3	1	142b	3	1
Advanced Historical Geology.....	201	3	1	202	3	1
Research Work.....	203a	4	1	204a	4	1
GERMAN.						
Elementary German.....	101	4	238	102	4	215
Intermediate German.....	103	4	289			
Easy Classical Reading and Composition.....				104	4	167
Science Reading.....				106	4	91
Advanced German.....	107	4	37	108	4	21
Classical and Modern Writers.....	115	2	35	116	2	22
Schiller.....	117	2	26	118	2	18
Nineteenth Century Drama.....	119	2	58	120	2	50
Conversation and Prose Composition.....	131	2	31	132	2	17
Survey of German Literature.....	153	3	21	1	3	15
Lessing.....	155	2	14	156	2	12
Advanced Prose Composition.....	171	2	10	172	2	8
The Teaching of German.....	173	2	6			
Grammar Review.....				174	2	7
Phonetics.....	175	2	10			
Interpretative Reading.....				176	2	10
Middle High German.....	177	2	3			
History of the German Language.....				178	2	3
The Literature of the Empire (1870-1895).....	207	2	9	208	2	8
Seminar.....	215	2	11	216	2	9

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
GREEK.						
Elementary Greek	101	4	5	102	4	4
Xenophon's <i>Memorabilia</i> : Greek Prose Composition	105	4	4			
Herodotus: Selections. Homer: <i>Odyssey</i> .				106	4	4
Lysias: Eight Orations. Plato: <i>Apology</i> and <i>Crito</i>	107	3	2			
Plato, Continued. Homer: <i>Iliad</i> . Six Books.	117	2	32	108	3	2
Mediaeval Architecture				118	2	41
Mediaeval Sculpture and Painting.						
HISTORY AND PHILOSOPHY OF EDUCATION.						
History of Education	101	3	40	102	3	38
Educational Classics	105	3	3	106	2	2
History of European School Systems	107	3	3	108	2	2
History of Education in the United States	109	3	8	110	2	4
Seminar in the History of Education	123	1	2	124	1	1
HORTICULTURE.						
Pomology	105	4	54	106	4	50
Pomology	113	4	23	114	4	22
Plant Variations	107	3	7			
Experimental Horticulture	109	3	8	110	3	12
Principles of Horticulture	101	4	36	102	4	45
Principles of Horticulture	111	4	107	112	4	105
Vegetable Gardening	103	4	29	104	4	23
Vegetable Gardening	115	4	14	116	4	10
Pomology (Agricultural)				118	4	109
Landscape Gardening				108	3	26
Winter Course			80			
Canning (no credit)			6			
INDUSTRIAL ARTS.						
Strength of Materials				110	6	2
Machine Design				112	2	28
Shop Building				114	2	7
Carpentry and Pattern Making	101	2	167	102	2	136
Forging	103	2	163	104	2	149
Foundry Work	105	2 $\frac{1}{2}$	48	106	2 $\frac{1}{2}$	16
Chipping and Filing	107	1 $\frac{7}{8}$	36	108	1 $\frac{7}{8}$	12
Joinery and Pattern Making	109	2	33	110	2	24
Advanced Pattern Making	111	2	21	112	2	13
Cabinet Making	113	2		114	2	
Forging	115	2	25	116	2	44
Advanced Forging	117	2		118	2	2
Machine Work	119	3	30	120	3	35
Advanced Machine Work	121	3	25	122	3	33
Advanced Machine Work	123	2	2	124	2	1
LATIN.						
Roman Antiquities and Archaeology (Graduate).	215	2	6	216	2	6
Roman Prose Authors and Roman Poets (Graduate and Undergraduate)	121	3	3	122	3	4
Roman Prose Authors and Roman Poets (Special Graduate)				122	2	2
Roman Private Life	107	1		108	1	6
Latin Prose Composition (Advanced) (Graduate).	119	2	6	120	1	6
Roman Poets (Special Graduate)	121	2	2	122	2	3
Latin Prose Composition	115	3	17	116	3	18
Historical Latin Grammar (Undergraduate and Graduate)	123	1	4	124	1	3
Roman Satire and Roman Novel	105	2	3	106	2	7
Pro-Seminar	113	3	14	114	3	16
Pliny, Catullus, Latin Comedy	103	3	31	104	3	26
Roman and Comparative Literature	111	1	5	112	1	4
Cicero, Horace, Livy	101	4	42	102	4	41

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
LAW.						
Bankruptcy		1	7			
Judgments		2	10			
Practice		2	35			
Legal Ethics				1	32	
Brief Making				2	29	
Practice Court				3	34	
Public Corporations				3	33	
Trusts				2	13	
Contracts	3	98		2	74	
Quasi Contracts	2	63				
Private Corporations	2	36		2	32	
Wills				2	57	
Equitable Remedies				2	24	
Negotiable Instruments	3	61				
Public Service Companies						
Carriers and Bailments	2	62				
Personal Property	2	95				
Suretyship				2	62	
Sales				2	56	
Domestic Relations				2	74	
Federal Jurisdiction				2	16	
Criminal Law	3	94				
Torts	2	96		3	79	
Constitutional Law	3	35				
Conflict of Laws	2	1				
Partnership				2	62	
Damages				2	53	
Equity	4	36				
Practice Supreme Court and Court of Appeals				1	24	
Evidence	2	62		2	57	
Code Pleading	3	63				
Common Law Pleading				2	78	
Elementary Law	3	94				
Real Property	II	3	63	III	3	60
Conveyancing		2	27			
Agency				2	85	
Real Property				I	2	78
Insurance				2	12	
MANUAL TRAINING.						
Construction Design	108	3	3			
Metal Work	107	2	18	108	2	11
Leather Work	115	3	10			
Wood Carving				116	3	7
Hand Work				102	2	19
MATHEMATICS.						
Plane Geometry	113	5	18			
Plane Trigonometry and College Algebra	121	3	115			
Differential Calculus (Arts)	127	3	7			
Mathematics of Statistics, Finance, Insurance	129	3	5			
Plane Trigonometry and College Algebra	131	6	288	131	5	82
College Algebra and Analytic Geometry	132	5	89			
Differential Calculus	141	5	195	141	5	51
Integral Calculus	142	5	15			
Differential Equations	151	1	41			
Determinants	161	3	2			
Differential Equations	167	3	1			
Differential Equations	169	3	10			
Projective Geometry	171	3	3			
Modern Higher Algebra	173	3	2			
Teaching of Mathematics	175	3	7			
Research Work (Fourier's Series)	201	3	3			
Solid Geometry and Plane Trigonometry					5	15
Analytic Geometry and College Algebra				122	3	87
Integral Calculus				128	3	6

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
MATHEMATICS—Concluded.						
Mathematics of Statistics, Finance and Insurance.				130	3	5
Analytic Geometry and College Algebra.				132		208
Integral Calculus.				142		159
Theory of Equations.				162		1
Plane and Solid Analytic Geometry.				164		3
Non-Euclidian Geometry.				172		1
The Galois of Equations.				174		3
Teaching of Mathematics.				176		5
Research Work.				202		1
MECHANICAL ENGINEERING.						
Mechanism.	101	3	36	114	3	31
Steam Power Plants.	103	3	87			
Mechanism and Machine Design.				116	3	
Mechanism Drawing.				118	1	32
Steam Engines.				120	1	39
Steam Boilers.						
Heating and Ventilating.	121	2	12			
Materials of Construction.	123	2	10			
Gas Engines and Producers.	125	2	19			
Machine Design.	127	5	29			
Thermodynamics.	129	2	18	144	5	28
Inspection Trip to the West.				132		45
Inspection Trip to the West (Written Report).				140		4
Mechanism and Machine Design.				142	2	19
Hydraulic Machinery.				146	2	18
Steam Turbines.				148	2	11
Thesis Work.				164	2	29
Experimental Engineering Laboratory.						
Experimental Engineering Laboratory.	171	11				
Experimental Engineering Laboratory.	173	5	26			
Experimental Engineering Laboratory.	175	3	25			
Experimental Engineering Laboratory.	179	2	18	190	2	30
Experimental Engineering Laboratory.				192	6	22
Experimental Engineering Laboratory.					3	10
MECHANICS.						
Statics and Strength of Materials.	101	5	143	104	2	15
Strength of Materials, Kinetics and Hydraulics.	102	5	8	102	5	124
METALLURGY AND MINERALOGY.						
Fire Assaying.	105	3	12			
Alloy Analysis.	107	4	11			
General Metallurgy.	109	4	80			
Metallurgical Construction.	111	2	12			
Ore Dressing and Coal Washing.	113	2	11			
Advanced Crystallography and Physical Mineralogy.	117	3	2			
Crystallography and Mineralogy.				104	3	35
Metallurgical Analysis.				106	4	10
Determinative Mineralogy.				108	3	10
Metallurgy of Non-Ferrous Metals.				110	4	11
Technical Gas Analysis.				112	2	12
Special Metallurgy.				114	3	11
Thesis.				116	3	11
Microscopic Mineralogy.				118	3	2
METEOROLOGY.						
Meteorology.	101	2	121	102	2	6
MINE ENGINEERING.						
Mine Engineering.	103	4	14	104	4	12
Mine Engineering.	105	5	14	106	5	14
Mine Engineering.	109	1	6	110	1	6

THE WORK OF INSTRUCTORS 1912-1913—Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
MINE ENGINEERING—Concluded.						
Mine Engineering				116	3	6
Metallurgy	111	2	12			
Mathematics	101	5	18	102	5	12
Mine Engineering	201	5	1			
MILITARY SCIENCE AND TACTICS.						
Military Science	1	1	778	1	1	636
Military Science	2	1	470	2	1	438
Officers			49			49
PHARMACY.						
Theory and Practice of Pharmacy	101	5	38			
Operative Pharmacy				102	5	35
Pharmaceutical Chemistry	103	5	31			
Extemporaneous Pharmacy and Prescription Practice				104	6	29
Materia Medica	105	3	40	106	3	37
Pharmaceutical Assaying	107	5	8			
Pharmaceutical Analysis				108	5	6
Pharmacognosy	109	3	31	110	3	32
Pharmacognosy	111	3	31	112	3	32
Pharmaceutical Problems	113	1	32			
Toxicology				114	3	29
Preparation and Application of Physiological and Pathological Reagents				116	2	28
Pharmaceutical Latin	117	4	21	118	4	20
PHILOSOPHY.						
Introduction to Philosophy	101	3	39			
Logic (Introductory)				102	3	47
Logic (Introductory)	103	3	7			
Elementary Ethics	105	3	24	106	3	22
Aesthetics	115	2	29	116	2	26
Advanced Logic	113	3	2	114	3	2
Metaphysics	121	2	4	122	2	5
Philosophy of Kant	137	2	3			
Philosophy of Hegel				138	2	3
Main Currents of 19th Century Thought				142	3	10
History of Philosophy	151	3	25	152	3	24
PHYSICAL EDUCATION.						
Physical Education, Men—Floor Work	1	1	861	1	1	731
Personal Hygiene, First Aid to Injured—Lecture	1a			1a		
Advanced Exercise	2			2		
Physical Education, Women—Floor Work	1	1	493	1	1	425
Physical Education, Women—Floor Work	2	1		2	1	
Physical Education, Women—Lecture	3	1½		3	1½	
PHYSICS.						
Elementary Physics	101	6	16			
General Physics	103	4	21	104	4	14
General Physics	105	4	38	106	4	32
General Physics	111	3	91	112	3	108
General Physics	113	5	113	114	5	54
Advanced Laboratory	123	3-5	5	124	3-5	5
Physical Laboratory	133	2	46	134	5	37
Physical Laboratory	135	5	32			
Physical Laboratory				138	2	44
Physical Laboratory	139	3-5	2	140	3-5	2
Advanced Mechanics and Molecular Physics				142	3	4
Physical Seminar	145	1	2	146	1	1
Theoretical Physics	169	2	1	170	2	1
Research Laboratory	201	3-5	4	202	3-5	4

THE WORK OF INSTRUCTORS 1912-1913 — Continued.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
PHYSICS—Concluded.						
Theoretical Mechanics	203	3	2	204	3	1
Theory of Electricity and Magnetism.....	207	3	5	208	3	5
Conduction of Electricity Through Gases and Radioactivity	213	2	3	214	2	4
POLITICAL SCIENCE.						
Constitutional Government	101	3	59	102	3	51
International Laws	103	2	3	104	2	3
Colonial Government and Administration.....	108	3	5			
Comparative Administration				110	3	4
Jurisprudence	111	2	11	112	2	10
Pro-Seminar	117	2	2	118	2	3
Comparative Constitutional Law.....	119	2	8	120	2	4
PRINCIPLES AND PRACTICE OF EDUCATION.						
Principles of Education and Observation.....	101	3	25			
Practice in Education and Observation.....				103	3	20
University Extension (Saturdays).....						
Principles of Education (at Zanesville).....	101	1½	25	101	1½	25
History of Education (at Zanesville).....	102	1½	25	102	1½	25
PSYCHOLOGY.						
General Psychology—Introductory Course.....	101	3	253	102	3	219
General Psychology—Introductory Course.....	103	3	7	104	3	31
Educational Psychology	107	2	5	108	2	4
Experimental Psychology	111	3	8	112	3	7
Individual Psychology	133	2	9	134	2	6
General Psychology—Advanced Course.....	137	3	10	138	3	5
Seminar	145	3	3	146	3	2
ROMANCE LANGUAGES.						
Elementary French	101	4	309	102	4	232
Modern French Literature.....	103	4	162	104	4	128
Science Reading (French).....				106	4	6
Advanced Prose Composition (French).....	107	2	20			
XVII Century Drama: Molière and Corneille..	109	3	57			
XVII Century French Tragedy and Prose.....				110	3	49
French Seminar A.....	117	2	10	118	2	8
French Seminar B.....	119	2	1	120	2	1
Research in French Literature.....	Spl.	3	1	Spl.	3	1
Literary Movement in France in XIX Century..				206	2	1
Elementary Spanish	101	4	105	102	4	71
Modern Spanish Literature.....	103	4	18	104	4	12
Cervantes: Don Quixote.....	105	2	7			
Lope de Vega and Calderon.....				106	2	5
Research in Spanish Literature.....	Spl.	10	1	Spl.	10	1
RURAL ECONOMICS.						
Farm Accounts and Records.....	101	2	16	101	2	18
Farm Management	103	4	56	102	4	48
Agricultural Economics				104	3	58
Historical and Comparative Agriculture.....	105	3	7			
Research	107	5	3	108	5	2
Farm Management (Winter Course in Agriculture)		4	145			
SCHOOL ADMINISTRATION.						
The Organization of Public Schools.....	101	3	5			
The Administration of Public Schools.....				102	3	9
School Hygiene and Sanitation.....	103	3	2	104	1	3
Comparative School Administration (Graduate)..	105	5	2	106	5	2

THE WORK OF INSTRUCTORS 1912-1913—Concluded.

Course Subject.	First Semester.			Second Semester.		
	Course Number.	Credit Hours.	Total No. of Students in all Sections.	Course Number.	Credit Hours.	Total No. of Students in all Sections.
SCHOOL ADMINISTRATION—Concluded.						
The Secondary School.....	111	3	12	112	3	15
The Teaching of Agriculture in the High School.....	123	3	3	122	2	2
The Elements of General Agriculture.....	125	2	2	124	3	2
Rural Life and Institutions.....						
VETERINARY MEDICINE.						
Comparative Anatomy	101	6	66	102	10	61
Comparative Anatomy	103	8	47			
General Pathology	105	5	50			
Materia Medica	107	3	59	108	5	56
Horseshoeing	109	3	34			
Pharmacy				110	2	56
Obstetrics	111	3	36			
Pathology Laboratory	113	3	36	112	3	45
Parasitology				114	1	44
Canine Diseases	115	2	36	116	2	36
Clinic, Small Animals.....	119	1½	36	118	1½	81
General Surgery				120	3	88
Operating	121	1	36			
Meat Inspection				122	2	36
Clinic, Large Animals.....	123	1½	36	124	1½	88
Operating	125	1	36			
Medicine				126	5	61
Physical Diagnosis	127	3	34			
General Therapeutics				128	2	36
Ophthalmology				130	1	85
Agricultural Students	150	3	86			
Winter Course in Agriculture.....				3		62
ZOOLOGY AND ENTOMOLOGY.						
General Zoology	101	3	437	102	3	385
Comparative Anatomy	103	3-5	3	104	3-5	3
Economic Entomology	107	3	156	108	3	149
Practical Entomology	109	3	34	110	3	27
Animal Parasites	111	1	9			
Apiculture				112	3	14
Advanced Entomology (Agriculture).....	113	4	12	114	4	9
Advanced Entomology (Arts).....	137	3-5	7	138	3-5	7
Ornithology	139	2	5	140	2	5
Genetics and Variation.....	129	2	10	130	4	4
Seminar	143	1	15	144	16	16
Evolution	131	3	6	132	3	9
Embryology (Veterinary)				128	2	54
Vertebrate Embryology	125	3-5	3	126	3-5	3
Comparative Neurology	133	3-5	2	134	3-5	2
Cytology	135	3	1	136	3	1
Research	241	5	8	242	5	7
Theses			6			6
Vertebrate Embryology (Graduate).....	249	3-5	2	250	3-5	2
Invertebrate Embryology (Graduate).....	223	5	1	224	5	1

APPENDIX VI.

134

*SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	
Bachelor of architecture																																				8	9
Bachelor of arts	1	1	6					4	6	5	6	1	7	9	6	9	12	19	13	17	18	8	14	16	6	16	68	68	93	80	80	107	120	122	139	148	
Bachelor of philosophy								1	1	1	1	7	4	8	8	6	5	19	26	27	31	38	37	37	37												
Bachelor of science	5	5	1	12	12	12	1	4	12	4	4	8	10	10	7	11	7	9	4	10	10	5	7	11	5	10	7	3									
Bachelor of science (Agr.)								1	1				2	2	3	3		2	4	4	5	5	6	6	6	9	5	14	23	19	32	20	22	13	58	54	
Bachelor of science in chemical engineering																																					
Bachelor of science in chemistry																						1	1	7	5	3	4										
Bachelor of science in domestic science																							1	6	2	3	5	10	6	1	13	11	15	27	33	33	
Bachelor of science in education																																					
Bachelor of science in forestry																																					
Bachelor of science in horticulture																																					
Bachelor of science (H. F.)																1	3	1	1	1	2	1	1		1	2	2	6	4	2	2	5	5	1			
Bachelor of science (I. Arts)																				1	1			1	3												
Bachelor of science (Phar.)																																					
Ceramic engineer																																					
Civil engineer in architecture																																					
Civil engineer							1	1	1	3	3	4	1	2	2	7	9	7	9	11	4	8	7	3	10	11	14	9	17	15	24	26	22	33	24	16	27
Mechanical engineer		1				2	1	3	1	2	4	2	2			2	1	2	4	9	5	6	9	6	11	17	15	19	15	15	14	16	20	23	19	18	
Mechanical engineer in electrical engineering																																					
Engineer of mines			1	1		2	1	2	4	1	4	2																									
Graduate in pharmacy																																					
Master of pharmacy																																					
Doctor of civil engineering																																					
Doctor of veterinary medicine											1	1	4	4	5					4	2	3			4	2	8	26	9	13	18	27	28	30	61	44	
Master of arts												1	1	1	2			2		4	4	3	8	6	9	14	7	13	9	15	16	19	23	21	31	41	
Master of arts in education																																					
Master of science			1									1	1	2	2																						
Master of science (Agriculture)																																					
Master of science (Dom. Sc.)																																					
Master of science (H. F.)																																					
Doctor of philosophy																																					
Doctor of science													1																								
Juris Doctor																																					

ANNUAL REPORT

145

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* Statistics given prior to 1904 cover only the degrees granted at the Commencement.

APPENDIX VII.

SHOWING THE NUMBER OF STUDENTS IN THE GENERAL, TECHNICAL AND PROFESSIONAL COURSES

	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	1897-98.	1898-99.	1899-1900.	1900-01.	1901-02.	1902-03.	1903-04.	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.
General Courses (College of Arts).....	137	151	194	245	256	322	327	358	371	419	439	403	490	496	490	551	572	630	714
Technical Courses (other Colleges, except Law).....	166	259	381	368	424	453	453	511	541	603	771	888	1,039	1,135	1,129	1,262	1,280	1,436	1,626
Professional Courses (College of Law).....		55	67	72	65	100	132	148	191	201	220	188	166	171	179	162	153	138	132
*Graduate students and summer school.....	2			1		94	97	133	75	45	51	49	62	108	54	240	339	379	458
†Summer school (shopwork).....															74	75	81	80	90
Lake Laboratory (summer).....												19		23	32	26	19	26	32
Totals	305	465	642	686	745	969	1,019	1,150	1,178	1,268	1,481	1,547	1,757	1,933	1,958	2,316	2,444	2,689	3,052
Names counted twice.....																159	167	216	258
Net Total																2,157	2,277	2,473	2,794

* Until 1896, graduate students have been included in the first three classes.

† Until 1904, summer term students in shopwork have been included with graduate students.

APPENDIX VII—(Continued)

SHOWING THE NUMBER OF STUDENTS IN THE GENERAL,
TECHNICAL AND PROFESSIONAL COURSES

	1909-1910	1910-1911	1911-1912	1912-1913
General Courses (Colleges of Arts and Education).....	845	865	962	1,009
Technical Courses (Other Collegees Except Law).....	1,643	1,780	1,979	2,106
Professional Courses (College of Law).....	181	170	185	198
Graduate Courses (Graduate School 1911-).....	96	70	97	128
Summer Session	606	617	738	575
Lake Laboratory (Summer).....	36	22	28	25
Winter Courses	159	183	273	227
Total	3,566	3,707	4,262	4,268
Names counted twice.....	291	268	334	299
Net total	3,275	3,439	3,928	3,969

APPENDIX VIII.

SHOWING DEGREES AND CERTIFICATES GRANTED IN JUNE, 1913

GRADUATE SCHOOL

Acting Dean: HERBERT OSBORN

DOCTOR OF PHILOSOPHY

JOSEF MAXIMILIAN RUDWIN, A. B. (University of Wisconsin), A. M.
(University of Cincinnati).....Columbus

MASTER OF ARTS

ANNA BERTHA ADAMS, B. A.....Columbus
 EDGAR PAUL BENGERT, PH. B. (Brown University).....Cleveland
 FRED BERRY, B. A.....Columbus
 HUBERT EMERSON BICE, B. A.....Spencerville
 SHERMAN W. BILSING, B. A., B. S. (Otterbein University).....Crestline
 JAMES WALTER BOWEN, A. B. (Cornell University).....Columbus
 MARGUERITE BOYLAN, B. A.....Columbus
 CHARLES KIMBERLIN BRAIN, B. A.....Tamworth, England
 ROBERT ORIN BURGETT, B. A. (Ohio Wesleyan University).....Columbus
 GEORGE THOMAS CALDWELL, B. A.....Columbus
 GEORGE SCOTT CHAPIN, A. B. (Bowdoin College).....Columbus
 ELIZABETH COLLETTE, B. A. (Oxford College for Women).....Columbus
 JOHN FOREST CRAIG, B. A.....Greenville
 JESSE ERWIN DAY, B. A. (Miami University).....Yorkshire
 JOHN BERNARD DICKSON, B. S. (Ohio University).....Columbus
 ESTHER DOROTHY FAVILLE, B. S. (Berea College).....Emporia, Virginia
 IDA LOUISE FEIEL, B. Ph.....Columbus
 WILLIAM NORMAN FENNINGER, Ph. B. (Franklin and Marshall College) Kinzer, Pa.
 DANIEL A. FERREE.....Waverly
 ELIZABETH MARGUERITE GARDINER, B. A.....Columbus
 WESLEY EMMET GATEWOOD, B. A.....Clintonville
 KATHARINE DARLINGTON HUNTINGTON, B. A., B. Sc. in Education.....Columbus
 WENCEL J. KOSTIR, B. A.....Columbus
 FLORENCE LENTZ, B. Ph.....Marysville
 HELEN KELLEY LITTLE, B. A.....Columbus
 ETHEL McDONALD, B. A.....Clintonville
 JACKSON BENJAMIN MCKINNEY, B. A. (Marietta College).....Marietta
 RUTH MILLER, B. A.....Columbus
 GLENDORA MILLS, B. Ph.....
 HENRY HERBERT REIGHLEY, B. A. (Miami University).....Columbus
 EMILIE CATHERINE RENZ, B. A.....Columbus
 KATHRYN MARGARET ROESER, B. A. (Washington University).....Tulsa, Okla.
 EMMA ELIZABETH ROWER, B. A.....Kalida
 MINNIE AGNES SHAFFER, B. A. (Denison University).....Granville
 FLORENCE ELNORA SHELTON, B. A.....Columbus
 RAYMOND LOUIS STEHLE, B. A.....Columbus
 OTTILIE THEOBALD, B. A.....Columbus
 ARIEL NORTON THURSTON, B. A.....Grand Rapids

MARY CANDACE WAKEFIELD, B. A. (Ohio Wesleyan University).....	Columbus
EDWIN SHELLABARGER WALLACE, B. A. (Wittenberg University).....	Springfield
JULIA ROSALIE WOODRUFF, B. A., B. Sc. in Education.....	Columbus

MASTER OF SCIENCE

CLINTON B. CLEVINGER, B. Sc. in Agriculture.....	Fletcher
PERRY VAN EWING, B. Sc. in Agriculture.....	Manhattan, Kan.
ANDREW MILLER JANSEN, D. V. M.....	Columbus
EARL JONES, B. Sc. in Agriculture.....	Granville
LEO EDWARD MELCHERS, B. Sc. in Horticulture.....	Toledo
THOMAS GUTHRIE PHILLIPS, B. Sc. in Agriculture.....	Kingsville

DEGREES CONFERRED DURING THE CURRENT ACADEMIC YEAR

MASTER OF ARTS

As of the Class of 1912

STURGISS B. DAVIS.....	Groveport
CLIFFORD W. JACKSON.....	Columbus
CECIL P. LYON.....	Delaware
LEON B. McCARTY.....	Columbus
JACOB FRANCIS SHREVE.....	Glenville, W. Va.
CLARENCE R. WEINLAND.....	Columbus
YOSHIHISA KAWAGUCHI.....	Japan
HOMER DENISON HOLLER.....	Columbus

COLLEGE OF AGRICULTURE

Dean: HOMER CHARLES PRICE

BACHELOR OF SCIENCE IN AGRICULTURE

WILBER BLAIR ADAMS.....	Columbus
HOWARD BENTON ANTHONY.....	Springfield
FREDERICK GROVER CHARLES.....	Ada
CHARLES FREDERICK CLASS.....	Tadmor
ALFRED ERSKINE CLELAND, A. B. (Muskingum College).....	New Concord
WINFIELD SCOTT COURTRIGHT.....	Lancaster
ALLEN REA CRAMER, B. Sc. (Ohio Wesleyan University).....	Wharton
GEORGE BLAIR CRANE.....	Columbus
RALPH FOREST CRIM.....	Uhrichsville
OTTO CLEMENT CROY.....	Dresden
MURPHY JAMES DOHERTY.....	Reynoldsburg
HARRY DEAN DRAIN.....	Belpre
LEWIS HAROLD FUDGE.....	West Alexandria
WALTER VERNON GAGE.....	Lakewood
CARL ABRAHAM GEARHART.....	Van Wert
PAUL GERLAUGH.....	Osborne
ATTILLA COX GRANT.....	Cleveland
THOMAS LEE GUYTON.....	Winterset
DENNIS EDWARD HALEY.....	Sabina
ERNEST BASIL HAWES.....	Arcanum
RAYMOND JAEGER.....	Euclid
HARRY WILLIAM JONES.....	Burghill
RALPH KENNEY (as of the Class of 1912).....	Centerville

PAUL CARL LAUX.....	Columbus
PAUL MCKEEHAN LOGAN.....	Cincinnati
WALLACE LESLIE LOVE.....	Lockwood
EDWARD WILLIAM MCOMAS.....	Woodsfield
DON MCNEAL	Iberia
FRANCIS CYRUS MARSHALL.....	Beaverdam
MYRON DANIEL MILLER, B. S. (Hiram College).....	Tiffin
WILLIAM REED MILLER.....	Bellefontaine
CARL FREDERICK OBERHELMAN.....	Norwood
ERNEST OLIVER.....	Versailles
HERBERT EDWIN OTTING.....	Warren
RALPH MADISON PAVEY.....	Columbus
WALTER ALLEN PRICE.....	Columbus
JOSEPH WILLIAM RAY.....	New Madison
HUGH JAMES RIDGE.....	Ottawa
RUSSELL IRWIN ROUDEBUSH.....	Goshen
THOMAS ANDREW ROUSE.....	Crittenden, Kentucky
SCHUYLER MARSH SALISBURY.....	Kingsville
FREDERICK J. SALTER.....	West Unity
ROBERT MUNDHENK SALTER.....	West Unity
BYRON ARTHUR SCHNELL.....	Lodi
LEE WORTHINGTON SMITH.....	Cleveland
CLELL SOLEATHER.....	Jerry City
JOSEPH WILLIAM TULLOSS.....	Mt. Vernon
CHIN WAH, B. S. (Ohio Northern University).....	Kong Moon, China
TRUE GEORGE WATSON.....	San Francisco, California
WALTER RAY WHELOCK.....	Atwater
ELMORE OSCAR WILLIAMS.....	Mt. Victory
HERBERT AUGUSTUS WISE.....	Bellevue
GROVER CLEVELAND WOODIN.....	Cleveland
LEWIS SEARL WORK.....	Georgetown

BACHELOR OF SCIENCE IN FORESTRY

ERLE OGDIN BLAIR.....	Columbus
RAY BROCK.....	Dayton
JOSEPH WARD CALLAND.....	Summerfield
WILLIAM EUGENE DAVIS.....	Greenfield
WILLIAM LEWIS DUBOIS.....	Columbus
ROBERT CHARLES HASSLER.....	Cleveland
WALTER HARRISON LARRIMER.....	Bloomington
GEORGE WASHINGTON ROGERS.....	Columbus
ERRETT MORSE SELBY.....	Columbus
BYRON ANDERSON STOVER.....	Dayton
GARNETT MERRILL WIKOFF.....	Columbus

BACHELOR OF SCIENCE IN HORTICULTURE

CLARENCE LAUREN CLAYTON.....	Upper Sandusky
CLAYTON LEWIS LONG.....	Columbus
JOHN McDONALD ROGERS.....	Madisonville

BACHELOR OF SCIENCE IN DOMESTIC SCIENCE

BESSIE GRACE APPLE.....	Miamisburg
MADGE FLORENCE BARNES.....	Columbus

MARY ROWENA BETZ.....	Columbus
HELEN FRANCES BROWNING.....	Toledo
MAUD ANN CHESTER.....	Rome
EDITH CLARK.....	Columbus
JESSIE MARTHA COWGILL.....	Columbus
LUCIE ANN DAVIS.....	Clintonville
MAYME DAVIS.....	New Milford
BESSIE LENORE EAGER.....	Idaho
LEONIE CHARLOTTE FRECHTLING.....	Hamilton
DOLORES EMMA GARRETT.....	Chillicothe
IRMA JOSEPHINE GEHRES.....	Waverly
BERTHA GERLAUGH.....	New Carlisle
STELLA ROSE GITTINGS.....	Columbus
MILDRED REBECCA HORNE.....	Richwood
ADELINE JETTINGHOFF.....	Delphos
TERESE KENNEDY.....	Portsmouth
FLORENCE ALMA LONG.....	Columbus
FRANCES MILNDA McMULLEN.....	Lyons Station, Indiana
ALMA MARIE NICHOLS.....	Westerville
MAUD ELIZABETH OKEY.....	Marietta
OLIVE LOUISE POLLOCK.....	Delaware
JOSEPHINE RICHARDSON.....	Columbus
ELIZABETH AMELIA RIPPPEL.....	Alliance
ETTA KATRINA SAYRE.....	Pataskala
SARA SELLERS.....	Columbus
EVIRA THRALL SMITH, B. A.....	Columbus
JOY HARDY SMITH, B. A.....	Columbus
SARAH ELIZABETH STIMMEL.....	Columbus
NELLIE SWARTZEL.....	Germantown
ETHEL SAPP TUDOR.....	Mt. Vernon
JENNIE CELESTE WHITAKER.....	Hamilton

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Dean: JOSEPH VILLIERS DENNEY

BACHELOR OF ARTS.

IRENE AUSTIN.....	Toledo
ELEANOR BANTA.....	Menasha, Wisconsin
HUGH MONNETT BENNETT.....	Columbus
JOAN BUCHWALTER BERRY.....	Hallsville
LOUISE AMIDON BETHEL.....	Columbus
ELLIS MOORE BLACK.....	Columbus
JACOB BOWERS (B. A. and B. S., Lima College).....	Lima
ANETTALIE MARGARET BOWMAN.....	Columbus
OSCAR FISCHER BOYD.....	Martinsville
FANCHEON IRENE BOYLE.....	Columbus
THOMAS NEWTON BROWN.....	Columbus
RUTH ELIZABETH BRYANT.....	Toledo
ARTHUR SEWARD BURKET.....	Columbus
HELEN GRACE CARROLL.....	Columbus
ETHEL ELLIOTT CHERINGTON.....	Columbus
HAROLD FARNSWORTH CHILDS.....	Columbus
HELEN VINCENTIA CODY.....	Columbus

JOHN FLOYD COBLE.....	Toledo
CARL DAVID CONNELL.....	Pataskala
HENRY HOWARD COPELAND.....	Columbus
PAUL CORNELL.....	Columbus
MARY ELIZABETH COTTER.....	Columbus
KENNETH CHARLES COTTINHAM.....	Columbus
ELIZABETH ELLA COURTNEY.....	Columbus
MARY MAGDALENE CRAWFORD.....	Columbus
HARRISON MORTON CRELLIN.....	Chardon
ELIZABETH JESSIE DARNELL.....	Grove City
VIRGIL ZARTMAN DORFMEIER.....	Dayton
SYBIL DAVIS EMERSON.....	Columbus
JOHN LEROY ESTRICH.....	Enderlin, North Dakota
GLADYS ELOISE FOOTE.....	Columbus
ISABEL FORD.....	Columbus
ASA EMMANUEL FOSTER.....	Columbus
IZOLA LEONATA FRIES.....	Grove City
HELEN GARDNER.....	Columbus
ISAAC WILLIAM GEIGER.....	Bluffton
STELLA ROSE GITTINS.....	Columbus
MARY GORMLEY.....	Clintonville
ROSE GORMLEY.....	Clintonville
ECKLEY GAYLOR GOSSETT.....	Dayton
WALTER WILLIAM GROTHAUS.....	New Bremen
HOMER CARRELL HADDOX.....	Moundsville, West Virginia
MARIE HAHN.....	Columbus
CLIFFORD HALLIDAY.....	College Hill
JENNIE HARMON.....	Columbus
FLORENCE HART.....	Columbus
EDNA RUTH HOFFMAN.....	Columbus
GEORGE OWEN HOSKINS.....	Wapakoneta
HALLIE BARCUS HOSKINS.....	Columbus
LILLIAN EATON HUMPHREY.....	Ironton
WALTER EUGENE ISALY.....	Columbus
ETHEL MAY JONES.....	Columbus
EDGAR BURNETT JUNKERMANN.....	Columbus
CELIA LOIS KAHN.....	Columbus
GEORGE ALBERT KIPP.....	Sidney, New York
FRANK GORDEN KITTLE.....	Columbus
MARY ELIZABETH KLINE.....	Gilboa
HELEN MARIE KRIEGER.....	Columbus
ALBERT FRANKLIN KUHL.....	Huron
JOSEPHUS FLOYD LEIST.....	Mt. Sterling
FLORENCE LUELLE LEWIS.....	Columbus
JOHN WHITE MCBURNEY, JR.....	Cambridge
RUTH MCCLURE.....	Dayton
MARGARET JANET MCCONNELL.....	New Athens
ALFRED PERCY MCFADDEN.....	Cadiz
RAYMOND FAY McMULLEN.....	Hillsboro
CATHARINE MARIE MCNAMARA.....	Columbus
CLAYTON McPEEK.....	Columbus
WALTER WINFIELD MARSHALL.....	Sugar Grove
RALPH GOODELL MARTIN.....	Columbus
RALPH HOLLINGSWORTH MINER.....	Columbus

URSULA ANNE MINTON.....	Columbus
JOSEPH CHARLES MONNIER.....	Louisville
DAVID GLENN MORGAN.....	Van Wert
HELEN MORNINGSTAR.....	Columbus
JAMES LEWIS MORRILL.....	Marion
ETHEL MORRIS.....	Columbus
MARGURITE MORRIS.....	Columbus
ROGER BENTON MORROW.....	Columbus
FOSTER MYERS.....	Toledo
ROBERT JAMES NEEDHAM.....	Dayton
MARGARET ANNE NESBITT.....	Bellaire
CHARLES EDWARD NUTT.....	Columbus
JENNIE BEBB OWEN.....	Columbus
FANNY ELLIS PARKER.....	Columbus
FRANCIS LESTER PATON.....	Columbus
ESTHER MARTHA PLATT.....	Toledo
WALTER WESLEY PLOCH.....	Columbus
EDWIN ARTHUR PORTZ.....	Stone Creek
JEANETTE CHASE REAMER.....	Columbus
ETHEL REASONER.....	Cambridge
JOHN WILLIAM REES.....	Columbus
SARA ANNA REESE.....	Columbus
WALTER GARFIELD REITZEL.....	Jamestown
THOMAS EVERETT RICHMOND.....	East Cleveland
GERTRUDE LUCILE ROBINSON.....	Worthington
HAZEL FLORENCE ROBINSON.....	Columbus
TOM GOUGH RODERICK.....	Canal Dover
CHARLES FRANKLIN ROSS.....	Richwood
HARRY MAIZE RUNKLE.....	Columbus
RUTH WIGHT SADDLER.....	Toledo
EDWIN JOHN SCARLETT.....	Columbus
EUGENE SCHMIDT.....	Georgetown
ETHEL IRENE SCHOFIELD.....	Columbus
ALFRED CLARK SCOTT.....	Leesville
ALBERT RAY SHADLE.....	Lockbourne
NAN RUTH SHARPLES.....	Warsaw
ERNEST SIEGFRIED.....	Springboro
ROBERT S. SIGAFOOS.....	Greenville
HAZEL SIPE.....	Lisbon
FLORENCE MITCHELL SMITH.....	Columbus
LEE IRVIN SMITH.....	Columbus
RACHEL LULU SMITH.....	Columbus
ROGER FREDERICK STEFFAN.....	Dayton
ISABEL DOROTHY STILWELL.....	Columbus
MARY IRENE STORER.....	Clyde
CARROLL ANDREW STUBBS.....	Celina
ELIZABETH ANN SWEATMAN.....	Toledo
EMERSON LEE TAYLOR.....	Columbus
JENNIE LOVE TAYLOR.....	Mooers, New York
MONA DELL TAYLOR.....	Toledo
EDWARD SINCLAIR THOMAS.....	Columbus
LINLEY MCKINLEY THOMAS.....	Arcanum
RILLA THOMPSON.....	Columbus
MARIE THRAILKILL.....	Columbus

MARIE THUM	Eaton
GRETTA PRICE TULLY.....	Columbus
BERTHA ALICE UNCAPHER.....	Marion
CLAUDINE URLIN.....	Grand View
ARTHUR VAN METER.....	Columbus
LEROY JOHN VELER.....	Curtice
MILO JOSEPH WARNER.....	Toledo
ELSON AARON WEFLER.....	Massillon
WALTER CROTHERS WEIDLER.....	Columbus
ROSS BROOKE WILDERMUTH.....	Pleasantville
AMY WILLIAMS	Columbus
CLARENCE FRANCIS WILLIAMS.....	Westerville
PHILIP KEMP WINSLOW.....	Columbus
CARL WITKE.....	Columbus
ETHEL BEARD WOLCOTT.....	Columbus

DEGREES CONFERRED DURING THE CURRENT ACADEMIC YEAR

BACHELOR OF ARTS

As of the Class of 1912

ANNA B. ADAMS.....	Columbus
FLORENCE M. CHAMBERLAIN.....	Marion
HARRIET B. CONKLIN.....	Delaware
GRACE A. FULLINGTON.....	Meade, Kansas
RUTH MILLER	Columbus
WILLIAM A. TIPPIE.....	Lima
MRS. ETHEL DENUNE YOUNG.....	Columbus
ISABEL MARIS.....	Columbus

COLLEGE OF EDUCATION

Dean: WILLIAM W. BOYD

BACHELOR OF SCIENCE IN EDUCATION

ELSIE MATILDA BAYHA.....	Wheeling, W. Va.
CHARLES GAY DISHONG.....	Morley, Michigan
VERONA MAE DOLLINGER.....	Sabina
MARGARET CAROLINE ECKER.....	Gallipolis
SYBIL DAVIS EMERSON.....	Columbus
REBECCA ABI FARQUHAR, B. A. (Wilmington College).....	Wilmington
ASA EMMANUEL FOSTER.....	Columbus
ZULEIME GARRETT	Chillicothe
LOUISE GERTRUDE HANE.....	Columbus
EDWARD WILLIAM HOWEY, B. S. (Lima College) (Ohio Northern University).....	Pemberville
JEANNETTE IRVIN	Columbus
SINA ADELINE KIRBY.....	Scio
MARY ELIZABETH KLINE.....	Gilboa
STANLEY LAWRENCE	Ashville
DWIGHT WARREN LOTT.....	Columbus
LORA JEAN McELROY, B. A. (Ohio Wesleyan University).....	Delaware
CATHARINE MARIE McNAMARA.....	Columbus

CLARA MAETZEL	Columbus
CORA ALNETTE MINER.....	Columbus
ESTELLA H. NEIGHBOR.....	Newcomerstown
ELSA PEARL PAGE.....	Felicity
CAROLYN LOCKE SCOTT.....	Columbus
RUTH MURRAY SIEBERT.....	Columbus
MARGARET FRANCES SMITH.....	Spiceland, Indiana
ELMER GIDEON SPAHR, B. A.....	Clifton
MARY ELISABETH STEWART.....	Toronto
ELIZABETH ANN SWEATMAN.....	Toledo
JENNIE LOVE TAYLOR.....	Mooers, New York
ETHEL VALENTINE.....	Columbus

DEGREES CONFERRED DURING THE CURRENT ACADEMIC YEAR

BACHELOR OF SCIENCE IN EDUCATION

As of the Class of 1908

T. F. LEONARD.....	Hudson
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As of the Class of 1912

WILLIAM CANNON LAWSON.....	Bryan, Texas
JEAN GERTRUDE KITT.....	Massillon
WALTER W. BORDEN.....	Columbus
ALBERT ALDEN DOTY.....	Columbus

COLLEGE OF ENGINEERING

Dean: EDWARD ORTON, JR.

BACHELOR OF ARCHITECTURE

LEO RICHARD CAMPBELL.....	Osborn
JAMES ARTHUR DUNN.....	Dayton
MARK DALLET FEINKNOFF.....	Columbus
CHARLES BAXTER HAMMOND.....	Detroit, Mich.
HARRY GROVES HUNTER.....	Barnesville
STANLEY WUECHNER LATTERNER.....	Hamilton
RAYMOND LORENTZ.....	Columbus
CLYDE THURMAN OAKLEY.....	Elyria
HARRY FRANCIS REICHARD.....	Columbus

CIVIL ENGINEER IN ARCHITECTURE

BRONSON ROY MAGEE.....	Zanesville
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CERAMIC ENGINEER

RICHARD MATHIAS BALMERT.....	Portsmouth
BERTRAM LEE CASSADY.....	Dresden
ARTHUR KARL DRESHER.....	Springfield
WILLIAM HENRY GRANT (as of the Class of 1912).....	Circleville
JUAN HOURSOURIPE.....	Buenos Ayres, Argentine Republic
VIRGIL SYLVESTER SCORY.....	Canton
EARL MONROE TILTON.....	Columbus
HARVEY A. WEGENER.....	Detroit, Mich.
HEWITT WILSON.....	Columbus

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

HENRY NEWSON CASE.....	Mt. Gilead
KARL FRED DUNKEL.....	Sandusky
ALBERT NATHANIEL ERICKSON.....	Jamestown, N. Y.
HOWARD EARL FRITZ.....	Barberton
VIRGIL ARTHUR MOORE.....	Chardon
CHARLES RAYMOND PARKINSON.....	Columbus
ALBERT FREDERICK CHARLES PERRIN.....	Columbus
ALFRED WILLIAM SCHEIDT.....	Van Wert
REUBEN LLOYD WALTER.....	Millersburg

DEGREE CONFERRED DURING THE CURRENT ACADEMIC YEAR

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

As of the Class of 1912

EDGAR COLLINS BAIN.....	Marion
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CIVIL ENGINEER

EDWARD MONROE ANDERSON.....	Bellaire
EMERSON NEIL BRINTNALL.....	Medina
GEORGE E. CARR.....	Stockport
DAVID BYERS CARSON.....	Columbus
DANIEL WALKER CONVERSE.....	Hilliards
JOHN MORDECAI DAVIS.....	Massillon
DURUS JOHN DEIBEL (as of the Class of 1912.....	Columbus
ROYAL SIBLEY DURRELL.....	Cincinnati
EDWARD FITZGERALD, JR.....	Excello
EDGAR HARRISON FRIEDMAN.....	Circleville
THEODORE SEDGWICK JOHNSON, B. S. (Denison University).....	Granville
GLENN ROBERT LOGUE.....	Conneaut
THEODORE CHARLES MERKLE.....	Toledo
FRANK ENOCH MISNER.....	Little Falls, N. Y.
ROY CLARK PURKHISER.....	Batavia
WILLIAM ROSSER RICHARDS.....	Alliance
HARRY ANDREWS ROBERTSON.....	Cadiz
SHELDON BEARDSLEY SHEPARD.....	Ilion, N. Y.
ROSCOE CHESTER SLOANE, PH. B. (Franklin College).....	Harrisville
ROBERT HUGH HOOKER SPIDEL.....	Canton
CARL ROLLAND STEBBINS.....	Creston
CHARLES SAMUEL STEVENSON.....	Columbus
FRANKLIN DEAN STEWART.....	Columbus
HERBERT ULRICH TUTTLE.....	Hoosick Falls, N. Y.

As of the Class of 1908

CLAIR ALLEN INSKEEP.....	Bellefontaine
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As of the Class of 1910

FORREST FAY FRAZIER.....	Manhattan, Kansas
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DEGREE CONFERRED DURING THE CURRENT ACADEMIC YEAR

CIVIL ENGINEER

As of the Class of 1912

RAYMOND WATKINSColumbus

MECHANICAL ENGINEER IN ELECTRICAL ENGINEERING

REGINALD ARNDTTiffin
 EDWARD CHARLES BABBITT.....Columbus
 TING-CHIN CHANGWusih, China
 TROI OVERHOLT FARMER.....Columbus
 ROBERT GEORGE FRYE.....Millersburg
 GUSTAV WILLIAM GALE.....Pittsburgh, Pa.
 JAY RUSSELL GEIB.....Middlebranch
 FLETCHER DIEM GRUND.....Toledo
 ERNEST HAUCKColumbus
 JAMES DAVIS HUBBELL, JR.....Columbus
 TADA-YOSHI INAGAKYNagoya, Japan
 WALTER SCOTT KAUFMAN.....Greenville
 ROBERT EMERSON KINKEAD.....Columbus
 FREDERICK WILLIAM KLAG.....Toledo
 THEODORE FRIEDRICH KUECHLE.....Marysville
 JOHN C. LINCOLN (as of the Class of 1888).....Cleveland
 LEO LYMAN McADAMS.....Orrville
 GLYDE ENSIL MERENESS.....Des Moines, Ia.
 NATHANIEL MERIONColumbus
 WILLIAM RYLAND MILBURN.....Columbus
 WARREN ARTHUR PLUMER.....Zanesville
 EDWIN WILBUR SEEGER.....Bucyrus
 R. ROY SHELTON.....Leetonia
 ROY RUSSELL SPETKA.....Mansfield
 WILLIAM TAYLOR STUBBINS.....Wellsville
 VLADIMIR ALEXANDROVITCH WISHNEVSKY.....Palkino Galitch, Russia
 DANIEL ROSSER WOLFF.....Mansfield

DEGREE CONFERRED DURING THE CURRENT ACADEMIC YEAR

MECHANICAL ENGINEER IN ELECTRICAL ENGINEERING

As of the Class of 1913

FRANK SHEPHERD GRIESINGER.....Dayton

MECHANICAL ENGINEER

WALTER GEORGE BUTLER.....Youngstown
 THOMAS GARFIELD CAYWOOD.....Columbus
 HARRY BEACH CRAFT.....Columbus
 LESTER D. DARST.....Covington
 WILLIAM O'CONNOR DURBIN.....Gibsonburg
 COLEMAN ALBERT JOHNSON.....Columbus
 KARL WAREHAM LEGG.....Columbus
 HERMAN JOHN LINTNER.....Ironton
 ARCHIE ALEXANDER MACLEAN.....Columbus

LAURENCE CLINTON MALTBY.....	Dayton
ROBERT HILL NEILAN.....	Hamilton
WINTHROP GLADWIN PLUMB.....	Columbus
ROBERT MYRON POWELL.....	Youngstown
HERMAN WILLIAM SCHALLER.....	Mansfield
ROGELIO ALBERTO SUAREZ MENA.....	San Antonio, Cuba
ELLSWORTH TONKIN	Cherry Tree, Pa.
HARRY CURTIS WEBB.....	Cleveland

DEGREE CONFERRED DURING THE CURRENT ACADEMIC YEAR.

MECHANICAL ENGINEER

As of the Class of 1883

ALEXANDER M. GOW.....	Duluth, Minn.
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ENGINEER OF MINES

GEORGE GOOD BARR.....	West Dover
STANISLAW JOSEF BLAZEYEWICZ.....	Lublin, Poland
HERBERT McDOWELL COX.....	Steubenville
EDWARD PATRICK ELLIOTT.....	Talana Natal, S. Africa
LOUIS MAURICE GREENSTEIN.....	Cincinnati
HENRY WALTER GRIESINGER.....	Mansfield
ROBIN ROGERS KIRKPATRICK.....	Utica
GEORGE CLARK LESLIE.....	Columbus
HARRY ALBERT LINCHE.....	Steubenville
ROBERT CARLTON SHERWOOD.....	Columbus
EARLE CLEMENT SMITH.....	New Brighton, Pa.

DEGREES CONFERRED DURING THE CURRENT ACADEMIC YEAR

ENGINEER OF MINES

As of the Class of 1907

ALAN DALE WILKINSON.....	Columbus
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As of the Class of 1913

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JAMES NELSON WHITESIDE, JR.	Youngstown

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CARL BIDDLE	Akron
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INDEX.

Report of the President.....	5
Report of the Trustees, Financial.....	15
Report, Dean, Graduate School.....	53
Report, Dean, College Arts, Philosophy and Science.....	58
Report, Dean, College of Education.....	62
Report, Department Military Science and Tactics.....	64
Report, Department Physical Education, Men.....	67
Report, Department Physical Education, Women.....	74
Report, Lake Laboratory.....	77
Report, Dean of Women.....	79
Report, Department Agricultural Extension.....	83
Appendices —	
I Board of Trustees and Officers.....	88
II Administrative Officers	89
III Faculty and Instructors.....	90
IV Salary Roll	111
V Work of Instructors.....	121
VI Degrees Conferred since founding of University.....	134
VII Student Enrollment	136
VIII Degrees and Certificates granted 1913.....	138

